United States
Environmental Protection
Agency

Pesticides and
Toxic Substances
(H-7508W)

September, 1992

EPA Reregistration Eligibility Document (RED)

Chlorinated Isocyanurates

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

APR 9 1998

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

CERTIFIED MAIL

Dear Registrant:

I am pleased to announce that the Environmental Protection Agency (the "Agency") has completed its reregistration eligibility decision on the pesticide active ingredients dichloro-s-triazinetrione, potassium dichloro-s-triazinetrione, sodium dichloro-s-triazinetrione, trichloro-s-triazinetrione and sodium dichloro-s-triazinetrione dihydrate.

Enclosed is a **Reregistration Eligibility Document (RED)** for the pesticide active ingredients dichloro-s-triazinetrione, potassium dichloro-s-triazinetrione, sodium dichloro-s-triazinetrione, trichloro-s-triazinetrione and sodium dichloro-s-triazinetrione dihydrate, hereafter referred to as the chlorinated isocyanurates. The RED is the Agency's evaluation of the chlorinated isocyanurates data base, its conclusions regarding human and environmental risks associated with the current product uses, and its decisions and conditions under which uses and products will be eligible for reregistration. Also enclosed are the **EPA RED facts** and the **Pesticide Reregistration Handbook** which provide instructions to registrants on how to respond to any labeling and data requirements specified in the RED and how to reregister products.

The RED identifies outstanding product specific data requirements for end-use products and manufacturing-use products. These requirements are listed on the Requirements Status and Registrant's Response Form, which, along with the Data Call-In Response Form listing all of your company's products subject to the RED, is included as an Attachment. Instructions for completing both forms are contained in the RED package. All product specific data must be submitted and found acceptable by the Agency before a product can be reregistered.

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Generic data requirements usually will have been fulfilled prior to making a reregistration eligibility decision. However, there may be some instances where additional generic data are required. If generic data requirements need to be fulfilled, all registrants must complete the appropriate Data Call-In Response Form and Requirements Status and Registrant's Response Form. These forms are in the appendices to the RED.

The RED identifies any specific labeling requirements such as restricted use classification, groundwater hazard statements, endangered species precautions, etc., necessary for reregistration based on a review of the generic data for the active ingredient. In addition, in order to be reregistered, all product labeling must be in compliance with format and content labeling as described in 40 CFR §156.10 and all labeling changes imposed by Pesticide Regulation (PR) Notices, and any label changes imposed by this RED.

The Pesticide Reregistration Handbook contains detailed instructions for compliance with the RED and must be followed carefully. There are several key points to remember in preparing your response to the RED:

Within 90 Days of Your Receipt of this Letter

1. For **each** **product** which is subject to this RED, **you must complete, sign and submit the data call-in (DCI) response forms attached to the RED** [Appendix F, Attachment B and C (if applicable) has forms for generic data; and Appendix G, Attachments B and C, has forms for product specific data]. Follow the instructions in Attachments B and C for completing those forms and submit the forms to the appropriate address specified in the Data Call-Ins. **Note that the DCI forms for generic data are to be sent to the Special Review and Reregistration Division (use the mailing distribution code RED-SRRD-0569 for your generic response). The DCI forms for product specific data are to be sent to the Registration Division (use the mailing distribution code RED-RD-PM32 for your product specific response).**

2. **No time extensions will be granted for submitting the 90-day responses.** If the Agency does not receive a response for a product, it may issue a Notice of Intent to Suspend (NOIS) for that product.

3. **Any requests for data waivers or time extensions to the 8-month deadline must be submitted as part of your 90-day response.** Such requests will generally not be considered if submitted later than the 90-day response.

Within 8 Months of the Date of this Letter

1. For **each product**, you must submit a completed **Application for Reregistration** (EPA Form 8570-1), **five copies of the label and labeling** revised as specified by the RED and in accordance with current requirements, **two completed copies of the Confidential Statement of Formula** (CSF) (EPA Form 8570-4), a completed **Certification with Respect to Citation of Data** (EPA Form 8570-31), and **data or references to data** (see item 2 below).

2. You must **submit or cite the required product specific data** as part of your commitment for reregistration. For most products, you will probably be citing data which have already been submitted to the Agency. In these cases, you must **submit a list of the studies and the corresponding EPA identifier numbers** (i.e., ACCESSION or MRID numbers). Before citing these studies, you must **make sure that they meet the Agency's current acceptance criteria** (Appendix F, Attachment E). Be sure to **follow data formatting requirements in P.R. Notice 86-5.** Failure to adequately comply with the data requirements specified in this RED may result in the Notice of Intent to Suspend your product.

3. The labeling and CSF which you submit for **each** product must **comply with P.R. Notice 91-2** (Appendix D). That Notice requires that the amount of active ingredient declared in the ingredient statement must be stated as the **nominal concentration** rather than the lower certified limit. You have two options for submitting a CSF: (1) accept the standard certified limits (see 40 CFR §158.175) or (2) provide certified limits that are supported by the analysis of five batches. If you choose the second option, you must submit or cite the data for the five batches along with a certification statement as described in 40 CFR §158.175(e).

4. Send your Application for Registration to the **Registration Division Product Manager 32 (PM 32) who is assigned to the product, Ruth Douglas.** Use the correct address shown on page 6 of the enclosed Product Reregistration Handbook (Appendix E). Note that the mailing distribution code for your response is RED-RD-PM32.

Questions on **product specific data requirements and labeling** (for both End-use and Manufacturing-use products) should be directed to the **Registration Division Product Manager 32 Team member** for the chlorinated isocyanurates, **Barbara Pringle at (703) 305 - 6484.** Questions on the **generic data requirements** should be directed to **Karen Samek, the Chemical Review Manager** in the **Special Review and Reregistration Division at (703) 308 - 8051.**

The Agency is prepared to meet with any registrants who have questions about responding to the chlorinated isocyanurates RED. **If you wish to meet with the Agency, you must contact Ms. Pringle within two weeks of your receipt of the RED.** The Agency intends to have one combined meeting with interested registrants. If there are any requests for such a meeting, the Agency will notify all registrants who requested a meeting of the date, location and time. Requests for a meeting will not extend the 90-day or 8-month response deadlines.

Sincerely yours,

Daniel M. Barolo, Director
Special Review and
Reregistration Division

Enclosures

REREGISTRATION ELIGIBILITY DOCUMENT

CHLORINATED ISOCYANURATES

LIST A

CASE 0569

September, 1992

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
SPECIAL REVIEW AND REREGISTRATION DIVISION
WASHINGTON, D.C.

GLOSSARY OF TERMS AND ABBREVIATIONS

ADI	Acceptable Daily Intake. Also known as the Reference Dose or RfD.
a.i.	Active Ingredient
ARC	Anticipated Residue Contribution
CAS	Chemical Abstracts Service
CSF	Confidential Statement of Formula
EEC	Estimated Environmental Concentration. The estimated pesticide concentration in an environment, such as a terrestrial ecosystem.
EP	End-Use Product
EPA	U.S. Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FFDCA	Federal Food, Drug, and Cosmetic Act
HDT	Highest Dose Tested
K+CWHR	Kernel plus Cob with Husk Removed
LC50	Median lethal concentration - a statistically derived concentration of a substance that can be expected to cause death in 50% of test animals. It is usually expressed as the weight of substance per weight or volume of water or feed, e.g., mg/l or ppm.
LD50	Median lethal dose - a statistically derived single dose that can be expected to cause death in 50% of the test animals, when administered by the route indicated (oral, dermal, inhalation). It is expressed as a weight of substance per unit weight of animal, e.g., mg/kg.
LDT	Lowest Dose Tested
LEL	Lowest Effect Level
MP	Manufacturing Use Product
MPI	Maximum Permissible Intake

GLOSSARY OF TERMS AND ABBREVIATIONS CONT'D

MRID	Master Record Identification (number). EPA's system of recording and tracking studies submitted to the Agency.
NPDES	National Pollutant Discharge Elimination System
NOEL	No Observed Effect Level
OPP	Office of Pesticide Programs
PADI	Provisional Acceptable Daily Intake
ppm	Parts per Million
RfD	Reference Dose
RS	Registration Standard
TMRC	Theoretical Maximum Residue Contribution

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APPENDIX D - List of Available Related Documents

APPENDIX E - Pesticide Reregistration Handbook

APPENDIX F - Generic Data Call-In

Attachment A - Chemical Status Sheet

Attachment B - Generic DCI Response Forms (Form A) plus Instructions

Attachment C - Requirements Status and Registrants' Response Forms (Form B) plus Instructions

Attachment D - List of all Registrant(s) Subject to This DCI and List of Products Subject to This Generic DCI

Attachment E - EPA Acceptance Criteria

Attachment F - Cost Share/Data Compensation Forms

APPENDIX G - Product Specific Data Call-In

Attachment A - Chemical Status Sheet

Attachment B - Product Specific DCI Response Forms (Form A) plus Instructions

Attachment C - Requirements Status and Registrants' Response Forms (Form B) plus Instructions

Attachment D - EPA Grouping of End-Use Products for Meeting Acute Toxicology Data Requirements for Reregistration

Attachment E - List of all Registrant(s) sent this DCI

Attachment F - EPA Acceptance Criteria

Attachment G - Cost Share/Data Compensation Forms

EXECUTIVE SUMMARY

The chlorinated isocyanurates are currently registered for use as disinfectants, sanitizers, algaecides, fungicides, fungistats, bactericides, bacteriostats, microbicides and microbistats. The chlorinated isocyanurates include five antimicrobial compounds as follows: dichloro-s-triazinetrione (081401), potassium dichloro-s-triazinetrione (081403), sodium dichloro-s-triazinetrione (081404), trichloro-s-triazinetrione (081405), and sodium dichloro-s-triazinetrione dihydrate (081407). These compounds hereafter will be referred to collectively as the chlorinated isocyanurates.

The Agency has determined that all products which contain the chlorinated isocyanurates as the active ingredient are eligible for reregistration for all registered uses.

In May 1988, the Agency issued a registration standard entitled "Guidance for the Reregistration of Pesticide Products Containing Chlorinated Isocyanurates As the Active Ingredient (NTIS PB88-220660). The registration standard summarized the available data supporting the registrations of the chlorinated isocyanurates and required additional data to assure that the proper use of the pesticides posed no potential adverse effects to man or the environment. The Agency has completed its review of the chlorinated isocyanurates data base including the data submitted in response to the 1988 Registration Standard.

The Agency has determined that all registered uses under the perview of the Agency will not cause unreasonable risk to humans or the environment and are eligible for reregistration. No tolerances or exemptions from the requirement of a tolerance are required to support the existing uses for the registered chlorinated isocyanurate products. The Agency, however, is requiring additional product chemistry data to complete the generic data base for some manufacturing-use/technical products. These products will be reregistered once these data are submitted to and accepted by the Agency. Products for which additional generic product chemistry must be submitted to fill existing data gaps are listed in Appendix F.

Before reregistering the applicable products, the Agency is requiring that product specific data and revised labeling be submitted within 8 months of the issuance of this document. These data requirements include product chemistry and acute toxicology testing and are listed in Appendix G. After reviewing these data and the revised labels, the Agency will reregister a product based on whether or not that product meets the requirements in section 3(c)(5) of FIFRA. Those products which

contain other active ingredients will be eligible for reregistration only when the other active ingredients are determined to be eligible for reregistration.

I. INTRODUCTION

In 1988, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) was amended to accelerate the reregistration of products with active ingredients registered prior to November 1, 1984. The amended Act provides a schedule for the reregistration process to be completed in nine years. There are five phases to the reregistration process. The first four phases of the process focus on identification of data requirements to support the reregistration of an active ingredient and the generation and submission of data to fulfill the requirements. The fifth phase is a review by the U.S. Environmental Protection Agency (referred to as "the Agency") of all data submitted to support reregistration.

Section 4(g)(2)(A) of FIFRA states that in Phase 5 "the Administrator shall determine whether pesticides containing such active ingredient are eligible for reregistration" before calling in data on products and either reregistering products or taking other "appropriate regulatory action." Thus, reregistration involves a thorough review of the scientific data base underlying a pesticide's registration. The purpose of the Agency's review is to reassess the potential hazards arising from the currently registered uses of the pesticide; to determine the need for additional data on health and environmental effects; and to determine whether the pesticide meets the "no unreasonable adverse effects" criterion of FIFRA.

This document presents the Agency's decision regarding the reregistration of the chlorinated isocyanurates. The document consists of five sections. Section I is this introduction. Section II describes the chlorinated isocyanurates, their uses and regulatory history. Section III discusses the human health and environmental assessment based on the data available to the Agency. Section IV discusses the reregistration decision for the chlorinated isocyanurates and Section V discusses product reregistration. Additional details concerning the Agency's review of available data are available on request.[1]

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[1] EPA's reviews of specific reports and information on the set of registered uses considered for EPA's analyses may be obtained from: EPA, Freedom of Information, 401, M St., S.W., Washington, D.C. 20460.

II. CASE OVERVIEW

A. CHEMICAL OVERVIEW

The following active ingredients are covered by this Reregistration Eligibility Document:

1. **Common Names:** Dichloro-s-triazinetrione, dichloroisocyanuric acid.

   Chemical Name: 1,3-Dichloro-s-triazine-2,4,6 (1H,3H,5H) trione.

   Trade Name: ACL 70.

   Chemical Family: Halogenated triazines.

   Office of Pesticide Programs Chemical Code: 081401.

   CAS Registry No: 2782-57-2.

   Empirical Formula: $C_3HN_3O_3Cl_2$.

2. **Common Names:** Potassium dichloro-s-triazinetrione; Potassium dichloroisocyanurate.

   Chemical Name: 1,3-Dichloro-s-triazine-2,4,6 (1H,3H,5H) trione potassium salt.

   Trade Names: ACL 59; P.D.I.C.

   Chemical Family: Halogenated triazines.

   Office of Pesticide Programs Chemical Code: 081403.

   CAS Registry No: 2244-21-5.

   Empirical Formula: $C_3N_3O_3Cl_2K$.

3. **Common Names:** Sodium dichloro-s-triazinetrione; sodium dichloroisocyanurate.

   Chemical Name: 1,3-Dichloro-s-triazine-2,4,6 (1H,3H,5H) trione sodium salt.

   Trade Names: ACL 60; CDB 60; CDB 63; S.D.I.C.

Chemical Family: Halogenated triazines.

Office of Pesticide Programs Chemical Code: 081404.

CAS Registry No: 2893-78-9.

Empirical Formula: $C_3N_3O_3Cl_2Na$.

4. **Common Names:** Trichloro-s-triazinetrione; trichloroisocyanuric acid; trichloroisocyanurate.

   Chemical Name: 1,3,5-trichloro-s-triazine-2,4,6 (1H,3H,5H) trione.

   Trade Names: ACL 90 Plus; CDB 90; T.I.C.A.; TCCA.

   Chemical Family: Halogenated triazines.

   Office of Pesticide Programs Chemical Code: 081405.

   CAS Registry No: 87-90-1.

   Empirical Formula: $C_3N_3O_3Cl_3$.

5. **Common Names:** Sodium dichloro-s-triazinetrione dihydrate; sodium dichloroisocyanurate dihydrate.

   Chemical Name: 1,3-Dichloro-s-triazine-2,4,6 (1H,3H,5H) trione sodium salt dihydrate.

   Trade Names: ACL 56; CDB Clearon; DICD.

   Chemical Family: Halogenated triazines.

   Office of Pesticide Programs Chemical Code: 081407.

   CAS Registry No: 51580-86-0.

   Empirical Formula: $C_3N_3O_3Cl_2N_2.2H_2O$.

The dechlorinated s-triazinetrione, isocyanuric acid, (OPP Chemical Code: 081402) was not considered under the 1988 Registration Standard and is not being considered in this reregistration eligibility document since it has no pesticidal properties per se. It acts only as an inert chemical stabilizer for the hypochlorous acid derived from other sources.

Although the penta-s-triazinetrione, (OPP Chemical Code: 081406) was considered in the 1988 Registration Standard, it is not being considered in this reregistration eligibility document since no active products remain registered with the Agency.

B. USE PROFILE

The following is information on the active registered uses with specific use sites and application methods. A detailed table of both eligible and ineligible uses of the chlorinated isocyanurates is in Appendix A.

1. **Chemical Name:** Dichloro-s-triazinetrione

Case number: 0569

Chemical Code: 081401

CAS Reg Number: 2782-57-2

Type of Pesticide: Disinfectant, Sanitizer.

Use Sites:
INDOOR FOOD:
Dairies/cheese processing plant equipment (food contact), Dairies/cheese processing plant premises (non-food contact), Dairy farm milk handling facilities/equipment, Dairy farm milking equipment, Eating establishments equipment/utensils (food contact), Eating establishments food handling and serving areas (non-food contact), Food processing plant equipment (food contact), Food processing plant premises (non-food contact).

INDOOR NON-FOOD:
Commercial/institutional/industrial floors, Commercial/institutional/industrial premises/equipment.

INDOOR MEDICAL:
Hospital noncritical items, Hospital/medical institutions non-conductive floors, Hospitals/medical institutions premises (human/veterinary).

INDOOR RESIDENTIAL:
Household/domestic dwellings contents, Household/domestic dwellings indoor premises, Residential floors.

Pests Controlled: Bacteria.

Formulation Types Registered:
TYPE: End use.
FORM: Liquid soluble concentrate.

Methods and Rates of Application:
TYPES OF TREATMENT: Mop, Sponge-on, Wipe-on, Scrub, Equipment treatment, Indoor premise treatment.

EQUIPMENT: Mop, Sponge, Cloth, Brush, Mechanical scrubber, Not on all labels.

TIMING: As needed.

RATE OF APPLICATION: 117 - 234 ppm available chlorine by weight.

Use Practices Limitations: Strong oxidizing agent; Do not mix with other chemicals or materials.

2. **Chemical Name:** Potassium Dichloro-s-Triazinetrione

Case Number: 0569

Chemical Code: 081403

CAS Reg Number: 2244-21-5

Type of Pesticide: Disinfectant, Sanitizer, Algicide, Fungicide/fungistat.

Use Sites:
AQUATIC NON-FOOD RESIDENTIAL:
Swimming pool water systems.

INDOOR FOOD:
Dairies/cheese processing plant equipment (food contact), Dairies/cheese processing plant premises (non-food contact), Dairy farm milk handling facilities/equipment, Dairy farm milking equipment, Eating establishments equipment/utensils (food contact), Egg washing treatments (commercial), Food processing plant equipment (food contact), Food processing plant premises (nonfood contact), Food processing water systems, Meat processing plant equipment (food contact), Meat processing plant premises (nonfood contact), Poultry processing plant equipment (food contact), Poultry processing plant premises (nonfood contact).

INDOOR NON-FOOD:
Commercial/institutional/industrial floors, Eating establishments food handling and serving areas (nonfood

contact), Egg washing treatments (hatching), Laundry (commercial).

INDOOR MEDICAL:
Hospitals/medical institutions premises (human/veterinary).

INDOOR RESIDENTIAL:
Bathroom premises/hard surfaces, Household/domestic dwellings contents, Household/domestic dwellings indoor premises, Refuse/solid waste containers (garbage cans), Residential floors, Toilet bowls (interior surfaces).

Pests: Algae, bacteria and fungi.

Formulation Types Registered:
TYPE: End use, Technical grade.
FORM: Granular, Pelleted/tableted, Solid soluble concentrate.

Methods and Rates of Application:
TYPES OF TREATMENT: Immersion, Spray, Surface treatment, Dip, Indoor premise treatment, Pour-on, Brush-on, Equipment treatment, Circulation method, Fog, Rinse, Wash, Water-treatment.

EQUIPMENT: Tank, Sprayer, Brush, Soak, By hand, Not on all labels.

TIMING: Initial, Subsequent/maintenance, Shock/slug, As needed.

RATE OF APPLICATION: 1 - 1326 ppm available chlorine by weight.

Use Practices Limitations: Strong oxidizing agent; Do not mix with other chemicals or materials.

3. **Chemical Name:** Sodium dichloro-s-triazinetrione

Case Number: 0569

Chemical Code: 081404

CAS Reg Number: 2893-78-9

Type of Pesticide: Microbicide/microbistat, Disinfectant, Sanitizer, Fungicide, Algicide, Bacteriostat.

Use Sites:
AQUATIC FOOD CROP: Human drinking water systems.

AQUATIC NON-FOOD INDUSTRIAL:
Air washer water systems, Commercial/industrial water cooling systems, Evaporative condenser water systems, Sewage systems, Heat exchanger water systems, Lakes/ponds/reservoirs (without human or wildlife use), Industrial scrubbing systems.

AQUATIC NON-FOOD RESIDENTIAL:
Swimming pools, Hot tubs and spas, Ornamental ponds/aquaria, Domestic/commercial non potable water (waterbed water).

GREENHOUSE FOOD CROP:
Mushroom houses-empty premise/equipment.

INDOOR FOOD:
Poultry (egg/meat), Egg handling rooms and equipment (commercial), Egg washing treatments (hatching and commercial), Dairy farm milk handling facilities/equipment, Dairy farm milking equipment, Household/domestic dwellings indoor food handling areas, Dairies/cheese and meat processing plant premises and equipment (food and non-food contact), Poultry processing plant equipment (food contact), Eating establishments food handling areas (food and non-food contact), Food dispensing equipment/vending machines.

INDOOR NON-FOOD:
Egg plants/hatcheries/brooder rooms, shoe baths (hatching), Mushroom houses-empty premises/equipment, Pasteurizer/warmer/cannery cooling water systems, Eating establishments food handling and serving areas (non-food contact), Commercial/institutional/industrial premises/equipment (indoor), Laundry (commercial), Diapers (commercial laundry), Refuse/solid waste containers (garbage cans).

INDOOR MEDICAL:
Hospital semicritical items (catheters/inhalation equipment).

INDOOR RESIDENTIAL:
Residential floors, Laundry (household/coin operated).

Pests: Bacteria, Slime-forming algae, bacteria and fungi.

Formulation Types Registered:
TYPE: End use, Manufacturing use.
FORM: Soluble concentrate/solid, Tablet, Granular.

Methods and Rates of Application:
TYPES OF TREATMENT:
Feeding and watering appliance treatment, Indoor premise treatment, Transportation vehicle treatment, Rinse, Spray, Brush-on, Mop, Egg treatment, Wash, Pour-on, Wipe-on, Immersion, Circulation method, Circulate-in-place (CIP) treatment, Equipment treatment, Dip, Soak, Water recirculating system treatment, Water treatment, Fog, Flush treatment, Surface treatment, Scrub, Contact and/or surface treatment.

EQUIPMENT:
Sprayer, Brush, Mechanical sprayer, Machine apparatus, Cloth, By hand, Skimmer basket, Pail, Portable chlorinator/brominator unit, Sponge, Tank, Dish washing machine, Sink, Washing machine.

TIMING:
As needed, Continuous feed (initial and subsequent), Intermittent (slug) (initial and subsequent), Shock/slug, Initial/Subsequent maintenance, Winterizing, Morning, Night time, Not on all labels.

RATE OF APPLICATION:
Available chlorine: 1 - 1062 ppm.

Use Practices Limitations: None.

4. **Chemical Name:** Trichloro-s-triazinetrione

Case Number: 0569

Chemical Code: 081405

CAS Reg Number: 87-90-1

Type of Pesticide: Microbicide/microbistat (slime forming bacteria, fungi, algae), Disinfectant, Sanitizer, Fungicide, Algicide, Bacteriostat.

Use Sites:
AQUATIC NON-FOOD INDUSTRIAL:
Air washer water systems, Commercial/industrial water cooling systems, Evaporative condenser water systems, Secondary oil recovery injection water, Sewage systems, Heat exchanger water systems, Lakes/ponds/reservoirs (without human or wildlife use), Industrial scrubbing system, Oil recovery drilling muds/packer fluids.

AQUATIC NON-FOOD RESIDENTIAL:
Swimming pool water systems, Ornamental ponds/aquaria.

INDOOR FOOD:
Poultry (egg/meat), Egg handling equipment and washing treatments (commercial), Dairy farm milk handling facilities/equipment, Dairy farm milking equipment, Agricultural/farm structures/buildings and equipment, Agricultural/farm premises, Household/domestic dwellings indoor food handling areas, Pasteurizer/warmer/cannery cooling water systems, Human drinking water systems, Food processing plant premises and equipment (food and non-food contact), Dairies/cheese processing plant premises and equipment (food and non-food contact), Meat processing plant premises and equipment (food and non-food contact), Poultry processing plant premises and equipment (food and non-food contact), Fish/seafood processing plant premises and equipment (food and non-food contact), Eating establishments equipment/utensils and food handling areas (food contact).

INDOOR NON-FOOD:
Animals (laboratory/research), Egg plants/hatcheries/brooder rooms/shoe baths (hatching), Eating establishments food handling and serving areas (nonfood contact), Commercial/institutional/industrial premises/equipment (indoor), Commercial/institutional/industrial floors, Leather/leather products, Laundry (commercial).

INDOOR MEDICAL:
Hospitals/medical institutions premises (human/veterinary), Hospital noncritical items (bedpans/furniture), Hospital/medical institutions non-conductive floors.

INDOOR RESIDENTIAL:
Laundry (household/coin-operated), Bathroom premises/hard surfaces.

PESTS: Black and green algae, Sulfate-reducing bacteria, Slime-forming bacteria, algae and fungi, *Desulfovibrio desulfuricans, Pseudomonas sp., Bacillus sp.*

FORMULATION TYPES REGISTERED:
TYPE: End use, Manufacturing use.
FORM: Soluble granular, Tablets, Sticks, Solid soluble concentrate.

METHODS AND RATES OF APPLICATION:
TYPES OF TREATMENT:
Feeding and watering appliance treatment, Wash, Spray, Circulate-in-place (CIP) treatment, Immersion, Premise treatment, Water recirculating system treatment, Water treatment, Broadcast, Sprinkle, Water once-through system treatment, Brush-on, Swab, Soak, Rinse, Wash, Sewage treatment, Mop, Wipe-on, Fog, Sponge-on, Immersion, Surface

treatment, Preservative treatment.

EQUIPMENT:
Pressure sprayer, Tablet feeder, Skimmer basket, By hand, Brush, Mop, Cloth, Fogging, Sponge, Tank, Metering pump, Washing machine, Portable chlorinator unit.

TIMING:
Continuous feed (initial), Continuous feed (subsequent), Intermittent (slug)(initial), Intermittent (slug)(subsequent), Initial, Subsequent/maintenance, Shock/slug, Winterizing.

RATE OF APPLICATION: Available chlorine: 1 - 971 ppm by weight.

USE PRACTICES LIMITATIONS: None.

5. **Chemical Name:** Sodium Dichloro-s-triazinetrione Dihydrate

Case number: 0569

Chemical Code: 081407

CAS Reg Number: 51580-86-0

Type of Pesticide: Microbicide/microbistat, Disinfectant, Sanitizer, Fungicide, Algicide.

Use Sites:
AQUATIC NON-FOOD INDUSTRIAL:
Air washer water systems, Commercial/industrial water cooling systems, Evaporative condenser water systems, Sewage systems, Heat exchanger water systems, Lagoons (without human or wildlife use), Industrial scrubbing system.

AQUATIC NON-FOOD RESIDENTIAL:
Hot tubs, Spas, Swimming pool water systems, Ornamental fountains.

INDOOR FOOD:
Poultry houses, Egg handling equipment, Commercial egg washing treatments, Hatching egg washing treatments, Dairy farm milk handling facilities/equipment, Dairy farm milking equipment, Household/domestic dwellings indoor food handling areas, Human drinking water systems, Food processing plant premises and equipment (food and non-food contact), Dairies/cheese processing plant premises and equipment (food and non-food contact), Meat processing plant premises and equipment (food and non-food contact), Poultry processing plant premises and equipment (food and non-food contact),

Fish/seafood processing plant premises and equipment (food and non-food contact), Eating establishments, Eating establishments equipment/utensils (food contact), Milk shake machines, Soft serve ice cream machines.

INDOOR NON-FOOD:
Hatching egg washing treatments, Pasteurizer/warmer/cannery cooling water systems, Eating establishments food handling and serving areas (non-food contact), Commercial/institutional/industrial premises/equipment, Laundry (commercial), Diapers (commercial laundry).

INDOOR MEDICAL:
Surgical fluid waste sanitizer.

INDOOR RESIDENTIAL:
Household/domestic dwellings indoor premises, Residential floors, Laundry (household/coin-operated), Toilet bowls (interior surfaces), Bathroom premises/hard surfaces, Refuse/solid waste containers (garbage cans).

Pests: Slime-forming bacteria, fungi and algae.

Formulation Types Registered:
TYPE: End use, Manufacturing use.
FORM: Soluble concentrate/solid, Pelleted/tableted.

Methods and Rates of Application:
TYPES OF TREATMENT: Circulation method, Water recirculating system treatment, Feeding and watering appliance treatment, Flush treatment, Egg treatment, Dip, Immersion, Spray, Surface treatment, Wash, Water treatment, Indoor premise treatment, Rinse, Pour-on, Wipe-on, Brush-on, Not on all labels.

EQUIPMENT: Sprayer, Automatic sprayer, Tank, Mechanical sprayer, Washing machine, Tablet dispenser, Skimmer basket, Automatic decontamination machine.

TIMING: Initial, Shock/slug, Subsequent/maintenance.

RATE OF APPLICATION:
Indoor medical: 99% active ingredient.

Available chlorine:
Aquatic non-food industrial: 1 - 199 ppm by weight.
Aquatic non-food residential: 1 - 113 ppm by weight.
Indoor food: 59 - 671 ppm by weight.
Indoor non-food: 6 - 426 ppm by weight.
Indoor residential: 106 - 426 ppm by weight.

Use Practices Limitations: None.

C. DATA REQUIREMENTS

Data required in the May 1988 Registration Standard for the chlorinated isocyanurates included studies on product chemistry, ecological effects, and toxicology. These data were required to support indoor and aquatic non-food uses of these chemicals. Both generic data (Table A) and product specific data for manufacturing-use products (Table B) were called-in. Please refer to **Appendix B** for details of the complete data base for the chlorinated isocyanurates. Appendix B includes all satisfied data requirements identified by the Agency for current use groups that are needed to support reregistration. The data tables in Appendix B reflect the Agency's reassessment of the data required for the reregistration of the chlorinated isocyanurates for the use patterns being supported.

D. REGULATORY HISTORY

The chlorinated isocyanurates were first registered in the United States in 1958 for use as disinfectants, sanitizers, algicides, and fungicides. A Data Call-In was issued March 26, 1980 for the chlorinated isocyanurates requiring additional toxicity data to assess the potential for kidney toxicity as a result of exposure to these compounds. A Registration Standard for the Chlorinated Isocyanurates was issued in May 1988 (NTIS #PB88-220660) which evaluated the studies submitted as a result of the 1980 DCI. (Note that the use index for the 1988 registration standard is available under NTIS #PB89-122147). The 1988 standard also required additional data to support the indoor and aquatic non-food uses for the chlorinated isocyanurates. This reregistration eligibility document reflects a reassessment of all data which were submitted in response to the Registration Standard.

III. SCIENCE ASSESSMENT OF THE CHLORINATED ISOCYANURATES

The Agency has conducted a thorough review of the scientific data base for the chlorinated isocyanurates for the purposes of determining the reregistration eligibility of these pesticides. These findings are summarized below.

A. PRODUCT CHEMISTRY ASSESSMENT

<u>Chemical Characteristics:</u>

Color: White.

Physical state: Crystalline solid.

Odor: Slight odor of chlorine.

Melting point: 225-250 C.

Bulk density: Powder, 0.50-0.65 g/ml; regular, 0.82-1.0 g/ml; granular, 0.85-0.96 g/ml; extra granular, 0.92-0.95 g/ml.

Solubility: Dichloro-s-triazinetrione, 0.8 g/100 g water at 25 C; potassium dichloro-s-triazinetrione, 9 g/100 g water at 25 C; sodium dichloro-s-triazinetrione, 24.8 g/100 g water at 26.8 C; trichlor-s-triazinetrione, 1.2 g/100 g water at 25 C; sodium dichloro-s-triazinetrione dihydrate, 26.2 g/100 g water at 25 C.

Vapor pressure: Very small, impossible to measure.

Stability: Stable and relatively inert when dry.

Unusual handling characteristics: Strong oxidizing agents which should be kept away from heat and flames.

The May 1988 Registration Standard required additional generic product chemistry data for each technical chlorinated isocyanurate. Although data gaps exist for some studies for some products, these requirements are not critical to the reregistration decision or environmental assessment of the chlorinated isocyanurates. The Agency is requiring additional product chemistry data at this time to satisfy these data gaps in the product chemistry data base for these chemicals.

B. HUMAN HEALTH ASSESSMENT

1. Hazard Assessment

The isocyanurates have been divided into three groups for the purposes of acute toxicity testing. The division is primarily on the basis of chemical structure and secondarily on the potential or actual effects related to the level of triazine ring chlorination. These groups are: (i) isocyanuric acid; (ii) the dichloroisocyanurate group (including the acid, the potassium salt, the sodium salt, and the dihydrated sodium salt); (iii) trichloroisocyanuric acid.

Since the chronic effects of chlorine for humans are well known, EPA determined that isocyanuric acid can represent all the chlorinated isocyanurates for the purpose of conducting metabolism, subchronic, chronic,

developmental, and mutagenicity studies. By using the nonchlorinated s-triazinetrione as the test substance, the effects of the triazinetrione moiety could be distinguished from those of the chlorine. Sodium isocyanurate was considered to be toxicologically equivalent to isocyanuric acid and, as such, was selected as a suitable test substance for the development of toxicity data.

All toxicity data requirements have been met. The effects and toxicity of the chlorinated isocyanurates are well understood and no further information is needed to evaluate human health risks.

a. Acute Toxicity

TEST	RESULTS WITH TRICHLOROISOCYANURATE	CATEGORY
Oral LD50--rat	1500 mg/kg	III
Dermal LD50--rabbit	> 10.0 g/kg	III
Eye irritation--rabbit	very irritating	I
Dermal irritation--rabbit	mild irritation	III

The available data indicate that the chlorinated isocyanurates have low acute oral and dermal toxicity but are very irritating to the eyes. The chlorinated isocyanurates are very mild primary dermal irritants and are not considered to be dermal sensitizers. Acute inhalation studies are not required because vaporization and respirable dust are not expected. Eye irritation testing with trichloroisocyanurate is not required since it is known that the chlorinated isocyanurates are generally very irritating to the eyes. Delayed neurotoxicity data are not required because the chlorinated isocyanurates are not organophosphates.

b. Subchronic Toxicity

When sodium isocyanurate was given in the drinking water for 13 weeks, the NOEL was 896 ppm (72 mg/kg/day) for male rats and 1792 ppm (522 mg/kg/day) for male mice. The toxic effects observed were hyperplasia of the urinary bladder and calculi in male mice, and hyperplasia in the lining of the urinary bladder in the male rats. The NOEL was 5375 ppm for female rats (371 mg/kg/day) and for female mice (1582 mg/kg/day).

A subchronic oral study in a nonrodent species is not required because the metabolism of sodium isocyanurate is similar in rats and dogs. Neither 21-day nor 90-day subchronic dermal studies are required because of a lack of toxicity in subchronic oral studies at doses far above use concentrations. Subchronic inhalation and neurotoxicity studies are not required for the reasons given under the associated acute topics.

c. Chronic Toxicity and Carcinogenicity

The LOEL in rats was 5375 ppm (371 mg/kg/day for males) based on decreased survival and lesions in the heart and urinary tract of males dosed in the drinking water for 2 years; the NOEL was 2400 ppm (154 mg/kg/day). Carcinogenic effects were not noted at any dose in the 2-year rat study or in a 2-year mouse study involving doses up to 5375 ppm (1523 mg/kg/day for males or 1582 mg/kg/day for females) in the drinking water. The dose level of 5375 ppm was reported to be the limit of water solubility for sodium isocyanurate. A chronic oral study in a nonrodent species is not required because the metabolism of sodium isocyanurate is similar in rats and dogs.

d. Developmental Toxicity

In rats, sodium isocyanurate was not teratogenic and the NOELs for both maternal and fetal toxicity were >5 g/kg/day. In one study in rabbits, the NOELs for maternal (weight loss) and fetal toxicity (decreased length) were 50 mg/kg/day and 200 mg/kg/day, respectively, with no teratogenic effects. Another study in rabbits found the maternal NOEL was 500 mg/kg/day (the highest dose tested), and the developmental NOEL was 200 mg/kg/day; the developmental LOEL was 500 mg/kg/day, with increased incidences of hydrocephaly and post-implantation loss.

e. Reproduction

A three-generation rat reproduction study found a NOEL of 5375 ppm for both adult reproductive and offspring effects. For adult systemic toxicity, the LOEL was 5375 ppm (371 mg/kg/day) and the NOEL was 1200 ppm (77 mg/kg/day), respectively, with urinary bladder calculi in the F2 males.

f. Mutagenicity

Sodium isocyanurate was not mutagenic in studies designed to detect the potential to induce gene mutation, structural chromosomal aberrations, or altered sister chromatid exchange frequency.

g. Metabolism

Metabolism studies in both the rat and dog, following administration of [^{14}C]sodium isocyanurate by the oral and intravenous routes, demonstrated rapid absorption, distribution, and excretion of unmetabolized isocyanurate. The elimination half-life in rats was 32-43 minutes following 5 mg/kg I.V. or oral administration. The half-life was 122-148 minutes after oral dosing at 500 mg/kg. At the 5 mg/kg dose, excretion was largely via the urine with about 5% in the feces. At the 500 mg/kg oral dose, 55-70% (rats) or 27-86% (dogs) was excreted in the feces and the remainder in the urine. These studies adequately elucidate the absorption, metabolism, and excretion of the chlorinated isocyanurates.

2. Exposure Assessment

a. Dietary Exposure

The chlorinated isocyanurates include five antimicrobial compounds as follows: dichloro-s-triazinetrione (081401), potassium dichloro-s-triazinetrione (081403), sodium dichloro-s-triazinetrione (081404), trichloro-s-triazinetrione (081405), and sodium dichloro-s-triazinetrione dihydrate (081407). These compounds will be hereafter referred to as s-triazinetrione compounds in this section.

The industrial/agricultural uses of the s-triazinetrione as a food contact surface sanitizer are not subject to residue chemistry data requirements under 40 CFR §158.125; these uses are regulated by FDA according to 21 CFR §178.1010 (b)2 and (c)2. Thus, there are currently no tolerances or exemptions from the requirements of a tolerance established for the s-triazinetrione compounds, and none are needed.

The May 1988 Guidance Document for Chlorinated Isocyanurates (page 15) required the establishment of or exemption from a tolerance for the use of chlorinated isocyanurate formulations as poultry drinking water sanitizers and as egg sanitizers because

these uses were not specifically included in the Code of Federal Regulations. This action is no longer appropriate; the uses of s-triazinetrione compounds (Chemical Code 081403, 15% SC/L, EPA Reg. No. 5185-62) in poultry drinking water have been canceled. The issue pertaining to uses of s-triazinetrione compounds as a commercial egg sanitizer is addressed in detail below.

The s-triazinetrione compounds are registered for use as food and non-food contact surface sanitizers in agricultural premises (including commercial egg wash treatments and dairy farm milk handling facilities/equipment), food/feed handling establishments, commercial/institutional/industrial sites, and residential sites. Use of the s-triazinetrione compounds as a food contact surface sanitizer (including the shells of intact eggs) is regulated by the FDA according to 21 CFR §178.1010 (b)(2) and (c)(2). This regulation stipulates that aqueous solutions containing dichloroisocyanuric acid, trichloroisocyanuric acid, or the sodium or potassium salts of these acids, with or without the bromides of potassium, sodium or calcium will not provide more than 100 ppm of available halogen determined as available chlorine. NOTE: Although 21 CFR §178.1010 does not provide specific reference to the commercial treatment of eggs for human consumption, the Agency interprets this regulation to include food-grade, intact egg shells as food contact surfaces.

There are no residue chemistry data requirements for s-triazinetrione compounds with respect to the registered uses of these compounds as food and non-food contact surface sanitizers (excluding commercial egg wash treatments). For those s-triazinetrione products with commercial egg wash treatment on the label, refer to the end-use product label requirements {section V(B)(2)(b) of this document} for further information.

b. Occupational and Residential Exposure

The 1988 Registration Standard for the Chlorinated Isocyanurates did not require occupational or residential exposure data. The chlorinated isocyanurates are used primarily as disinfectants and algicides in swimming pools and to a lesser extent in industrial cooling water systems. For these uses, the chlorinated isocyanurates are applied as solids with resulting concentrations ranging from 1-3 ppm for swimming pools and 0.5-107 ppm for industrial water

systems including cooling water, although, initial doses of up to 21.3 ppm for swimming pools and 1062 ppm for industrial water systems may be required. Other minor uses include sanitizing and disinfecting food and non-food contact surfaces and laundry sanitizing uses. For these minor uses, aqueous solutions are applied as sprays or by mopping, scrubbing, flooding, sponging, or immersion at concentrations ranging up to 1326 ppm. Note: ppm is expressed as available chlorine.

Occupational and residential exposure can be expected based on the currently registered uses of these chemicals. Current label requirements concerning swimmer exposure are as follows:

Reentry - Reentry into treated swimming pools/spas is prohibited above levels of 3 ppm of chlorine.

3. Risk Characterization

DIETARY

Dietary exposure to the chlorinated isocyanurates is not expected. There are no tolerances established for residues of these compounds because tolerances or exemptions from the requirements of a tolerance for the s-triazinetrione compounds are not necessary. A food additive regulation allowing the use of s-triazinetrione compounds as a sanitizing rinse on food-processing equipment and utensils, and on other food-contact articles (including the shells of intact eggs) has been established (21 CFR §178.1010).

OCCUPATIONAL AND RESIDENTIAL

The chlorinated isocyanurates do not appear to induce significant acute (except eye irritation), subchronic or chronic toxicity based on available information. As already mentioned in the acute toxicity discussion, it is known that these compounds are generally very irritating to the eyes.

Although some occupational and residential exposure can be expected from use of the chlorinated isocyanurates, the toxicity data indicate these compounds do not meet the Agency's toxicity criteria for the requirement of postapplication/reentry and/or mixer/loader/applicator exposure monitoring data. Accordingly, occupational and residential exposure data are not required to support the reregistration of the chlorinated isocyanurates.

C. ENVIRONMENTAL ASSESSMENT

1. Environmental Fate

The Agency has reviewed data submitted in support of registration, and the general literature, for environmental effects for chlorinated isocyanurates and their dechlorinated end-products, isocyanuric acid and cyanuric acid and has determined that the data base is adequate and will support reregistration.

In disinfection by chlorination, a chlorinating agent is added to the water in sufficient amounts so as to produce a residual free chlorine concentration after all of the chlorine demand has been satisfied. Residual free chlorine is defined as the sum of the concentrations of hypochlorous acid and hypochlorite anion; the amount of chlorination needed to reach residual free chlorine is known as breakthrough chlorination.

All of the chlorinated isocyanurates form hypochlorous acid when dissolved in water. Hypochlorous acid is a weak acid (dissociation constant 3.7×10^{-8} at 25 C) which dissociates into hypochlorite anions and hydronium ions; however, in the pH range 7 to 8 and below, hypochlorous acid is the predominant species. Hypochlorous acid (which is the species of actual pesticidal activity) is an oxidizing agent. It reacts readily with ammonia, amines, sulfides, sulfites, and nitrites present in the water. Antimicrobial activity results from the oxidation reactions with microbial enzyme systems. All of these oxidation reactions consume residual free chlorine, with the concomitant reduction of hypochlorous acid/hypochlorite to chloride anions.

Released hypochlorous acid from chlorinated isocyanurates can react with the dechlorinated isocyanurate/cyanurate moieties since there is an equilibrium between residual free chlorine and the dechlorinated moieties; this equilibrium complex reduces the loss of residual free chlorine to sunlight.[2] As free residual chlorine is used up, isocyanuric acid and cyanuric acid remain.

The moieties remaining after all chlorine is consumed are the symmetrical triazines isocyanuric acid and cyanuric acid. These two chemical's are known to co-exist in a pH-dependent equilibrium. Although they are not prone to abiotic degradation (hydrolysis; direct photolysis) or aerobic microbial degradation, anaerobic conditions favor

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[2]Betz Laboratories, Inc., Trevose, PA.,, BETZ Handbook for Industrial Water Conditioning, Seventh Edition, 1976

their rapid degradation to carbon dioxide and ammonia. The triazine moiety is essentially non-toxic, based on available mammalian metabolism and oral and dermal toxicity studies. No accumulation in mammals, fish, or non-target aquatic organisms is expected. The dechlorinated products are highly soluble in water (ca 2000 ppm) and would be rapidly excreted by aquatic organisms.

The rate and mechanism of decomposition of hypochlorous acid are dependent on pH, concentration, temperature, light, the presence of organic and inorganic matter, and the redox potential of the medium. Since hypochlorous acid is a weak acid it is found practically undissociated at the neutral pH range recommended for the use of chlorinated isocyanurates, which for swimming pool waters has been established as 7.2 to 7.6.

REFERENCES

- Wojtowicz, J.A., "Chlorine Monoxide, Hypochlorous Acid and the Hypochlorites", in Kirk-Othmer Encyclopedia of Chemical Technology, Vol.5, Wiley Interscience, New York, 3rd. Edition, 1979; pp. 580-611.

- Smolin, E.M and Rapoport, L., "S- Triazines and Derivatives", in The Chemistry of Heterocyclic Compounds, A. Weissberger, Consulting Editor, Interscience Publishers, New York, 1959; pp. 17-24 and 389-392.

- Greenwood, N.N. and Earnshaw, A. Chemistry of the Elements, Pergamon Press, Oxford, UK, 1984.

- Cotton, A.F. and Wilkinson, G. Advanced Inorganic Chemistry, John Wiley and Sons, New York, Fifth Edition, 1988.

2. Ecological Effects

The Agency has reviewed data submitted in support of registration and the general literature for ecological effects of chlorinated isocyanurates and their dechlorinated end-products isocyanuric acid and cyanuric acid and has determined that the data base is adequate and will support reregistration. The Agency has based its assessment on data developed using the chlorine derivative trichloro-s-triazinetrione. All of the chlorine derivatives will release hypochlorous acid on contact with water. Trichloro-s-triazinetrione was chosen as the test chemical because it produces the highest percent (90%) available chlorine as compared to sodium dichloro-s-triazinetrione which produces 64.2% available chlorine. Therefore, only data on

trichloro-s-triazinetrione is needed to support reregistration. However, all other data (chlorine derivatives) were evaluated and cited.

Effects on Birds

Trichloro-s-triazinetrione

Eight studies were evaluated under this topic.

Author	Date
Fink, R.	1976
Robaidek, E.	1985
Fink, R.	1975
Fink, R.	1975
Beavers, J.	1984
Robaidek, E.	1984
Beavers, J.	1984
Robaidek, E.	1984

In order to characterize the toxicity of isocyanurates to birds, valid data from the following tests on the technical material are required: Two subacute dietary studies on one species of waterfowl (preferably mallard duck) and one species of upland game bird (preferably bobwhite quail or ring-necked pheasant); an avian single-dose oral study on one species (preferably mallard duck or bobwhite quail).

The avian acute oral toxicity studies reviewed are listed below:

Species	%ai	LD50 mg/kg	Author	Date	Fulfills Guideline Rqmnts.
Mallard duck	100	1890	Fink, R.	1976	Partial*
Bobwhite quail	97	1674	Robaidek, E.	1985	Yes

* Birds were 14 days old instead of at least 16 weeks old and food was not withheld prior to dosing.

There are sufficient data available to characterize technical trichloro-s-triazinetrione as slightly toxic to birds. The avian acute oral guideline requirement has been satisfied with data from the evaluated documents.

The subacute dietary toxicity studies reviewed are listed below:

Species	% ai	LC_{50} (ppm)	Author	Date	Fulfills Guideline Requirements
Bobwhite quail	100	7235	Fink, R.	1975	Yes
Mallard duck	100	>10,000	Fink, R.	1975	Yes
Mallard duck	?*	>5620	Beavers, J.	1984	Partial
Mallard duck	?*	>5000	Robaidek, E.	1984	Partial
Bobwhite quail	?*	>5620	Beavers, J.	1984	Partial
Bobwhite quail	?*	>5000	Robaidek, E.	1984	Partial

*The avian dietary LC_{50} studies partially satisfy the requirement because the percent of ai is unknown.

There are sufficient data available to characterize trichloro-s-triazinetrione as practically nontoxic to upland game birds when administered in their feed. The guideline requirements for an avian subacute dietary toxicity test on the technical grade of trichloro-s-triazinetrione was satisfied by data contained in the evaluated documents.

Effects on Fish

Four studies were evaluated under this topic.

Author	Date
McCann, J.A.; Pitcher, F.G.	1973
McCann, J.A.; Pitcher, F.G.	1973
Barrows, B.	1985
Barrows, B.	1984

The minimum data required for characterizing the acute toxicity of isocyanurates to fish are the results of two 96-hour studies with technical grade material. The studies must be performed on one coldwater species (preferably rainbow trout) and one warmwater species (preferably bluegill sunfish).

The fish acute toxicity studies reviewed are listed below:

Species	% ai	LC_{50} (ppm)	Author	Date	Fulfills Guideline Requirements
Rainbow trout	100	0.37	McCann, J.A.,; Pitcher, F.G.	1973	Yes
Rainbow trout	100	0.33	McCann, J.A.; Pitcher, F.G.	1973	Yes
Rainbow trout	?*	0.08	Barrows, B.	1985	No
Bluegill sunfish	100	0.20	Barrows, B.	1984	Yes

*A formulated product was used instead of technical grade material.

There are sufficient data available to characterize trichloro-s-triazinetrione as very highly toxic to fish. The fish acute guidelines requirement has been satisfied by data contained in the evaluated documents.

Chronic Effects on Fish (From Sodium Hypochlorite Standard)

The maximum allowable toxic concentration (MATC) ranged from 0.11 to 0.23 ppm for fathead minnow (21-day study).

Effects on Invertebrates

Three studies were evaluated under this topic.

Author	Date
LeBlanc, G.A.	1976
Barrows, B.	1985
Surprenant, D.; Hoberg J.	1984

The minimum data required to characterize the acute toxicity of isocyanurates to freshwater invertebrates is a 48-hour aquatic study with the technical grade material. The test organisms should be first instar *Daphnia magna* or early instar amphipods, stoneflies, or mayflies.

The freshwater invertebrates studies reviewed are listed below:

Species	%ai	LC_{50} (ppm)	Author	Date	Fulfills Guideline Requirements
Daphnia magna	?*	0.25	LeBlanc, G.A.	1976	Partial
Daphnia magna	100	0.19	Barrows, B.	1985	Yes
Daphnia magna	100	0.8	Surprenant, D; Hoberg, J.	1985	Yes

*The percent of active ingredient is unknown.

There are sufficient data available to characterize technical trichloro-s-triazinetrione as highly toxic to freshwater invertebrates. The invertebrate Guidelines requirement has been satisfied by the evaluated documents.

Chronic Effects on Invertebrates (From the Sodium Hypochlorite Standard)

The MATC ranged from 0.11 to 0.4 ppm for American oysters (30-day study).

Effects on Estuarine and Marine Organisms

No studies were submitted for review on the isocyanurates. However, data cited in the Sodium Hypochlorite Standard are being utilized to support this Reregistration Eligibility Document because all of the chlorine derivatives will release hypochlorous acid on contact with water.

Sixteen studies from the Sodium Hypochlorite Standard were included under this topic.

Author	Date
Roosenburg et al.	1980
Roberts et al.	1975
Roberts and Gleeson	1978
Roberts et al.	1975
Roberts and Gleeson	1975 and 1978
Roberts et al.	1978 and 1979
Roberts et al.	1978 and 1979
Thatcher	1978
Buckley	1976
Thatcher	1978
Roberts et al.	1975
Bellance and Bailey	1977
Thatcher	1978
Roberts et al.	1975
Thatcher	1978
Roberts et al	1978 and 1979

Estuarine and marine organism toxicity tests on technical and formulated pesticides are required to support registration if there is an intended direct application to an estuarine or marine environment or if the pesticide may be expected to enter these environments in significant concentrations because of use or mobility pattern. These studies include acute LC_{50} testing on shrimp, oyster, and estuarine fish.

Acute estuarine and marine testing will be required on the hypochlorite salts since hypochlorites are discharged into estuarine and marine waterways.

The following information is taken from Ambient Water Quality Criteria for Chlorine, prepared for U.S. EPA, Environmental Criteria and Assessment Office, Cincinnati, Ohio, by Tobler, J.; Cohn, W.E., Jolley, R.; Carpenter, J.; Ferguson, M.; Stair, D.; Sigmon, C.; Hinkle, C.; Mattice, J.; Middaugh, D.; Cummings,R.; Science Applications, Inc., Oak Ridge, Tennessee, June 29, 1981.

Species	LC_{50} ppm
American oyster	
(*Crassostra virginica*)	
(larvae)	48-hr 0.026
(Straight-hinged larvae)	96-hr 0.046
(Juvenile)	96-hr 0.023
Copepod	48-hr 0.05
(*Acartia tonsa*)	48-hr 0.029-0.067
Crab	
(*Pagarus longicarpus*)	
(larvae)	96-hr 0.06
Crab	
(*Panoplus herbstii*)	48-hr 0.06
(larvae)	96-hr 0.02-0.04
Shrimp	
(*Pandalus goniurus*)	96-hr 0.09
Coho salmon	96-hr 0.07
	96-hr 0.032
Atlantic silverside	96-hr 0.037
Spot	96-hr 0.09
Pacific sand lance	
(juvenile and adult)	96-hr 0.082
Naked goby	96-hr 0.08
English sole	96-hr 0.073

There are sufficient data to characterize sodium hypochlorite as very highly toxic to estuarine and marine organisms. The Guidelines requirement for estuarine and marine organism testing has been satisfied.

Chronic Effects on Estuarine and Marine Organisms (From Sodium Hypochlorite Standard)

No studies were submitted for review on the isocyanurates. However, data in the Sodium Hypochlorite Standard are being utilized to support this Reregistration Eligibility Document.

Four studies from the Sodium Hypochlorite Standard were included under this topic.

Author	Date
Linden et al.	1977
Buckley et al.	1976
Bongerts et al.	1977
Linden et al.	1980

The following is taken from Ambient Water Quality Criteria for Chlorine, prepared for U.S. EPA, Environmental Criteria and Assessment Office, Cincinnati, Ohio, by Tobler, J.; Cohn, W.E.; Jolley, R.; Carpenter, J.; Ferguson, M.; Stair, D,; Sigmon, C.; Hinkle, C.; Mattice, J.; Middaugh, D.; Cumming, R.; Science Applications, Inc., Oak Ridge, Tennessee, June 29, 1981.

Embryolarvae and/or life cycle tests on the technical and formulated pesticide are required to support registration if the pesticide product is used in or is expected to be transported to water from the intended use site.

Species	Exposure Time	Conc. (ppm)	Effect
American oyster (*Crassostrea virginica*)	15 days	0.035 - 0.085	14% - 34% reduction in shell deposition
	15 days	0.014 - 0.062	14% - 34% reduction in shell deposition
Coho salmon	12 weeks	0.003 - 0.009	Reduction in hemoglobin and hematocrit; lysed erythrocytes; increased number of immature and abnormal cells.
Spot	20 days	0.014 - 0.062	Decreased blood pH

There is sufficient information to characterize the hypochlorites as chronically very highly toxic to estuarine and marine invertebrates and fish.

ECOLOGICAL EFFECTS PROFILE

Technical Trichloro-s-triazinetrione

a. Avian Studies

Acute oral LD_{50}s of 1674 and 1890 mg/kg were determined for bobwhite quail and mallard duck, respectively, given oral doses of technical trichloro-s-triazinetrione (Robaidek 1985, 1500962; Fink, R. 1976, 132603). Trichloro-s-triazinetrione can be characterized as slightly toxic to birds when administered as an acute oral dose.

Subacute dietary LC_{50}s ranging from > 5000 ppm to > 10,000 were determined for bobwhite quail and mallard duck for technical trichloro-s-triazinetrione (Robaidek 1984, 150964; Fink, R. 1975, 132426). Trichloro-s-triazinetrione can be characterized as practically nontoxic to birds when administered in the diet.

b. Aquatic Studies

Acute 96-hour LC_{50}s of 0.08 and 0.20 ppm were determined for rainbow trout and bluegill sunfish, respectively (Barrows 1985, 150966; Barrows 1984, 150965). Technical trichloro-s-triazinetrione can be characterized as very highly toxic to coldwater fish and highly toxic to warmwater fish.

c. Aquatic Invertebrates

An acute 48-hour LC_{50} of 0.19 ppm was determined for Daphnia magna (Barrows 1985, 1500967). Technical trichloro-s-triazinetrione can be characterized as highly toxic to freshwater invertebrates.

d. Estuarine and Marine Organisms

An acute 48-hour EC_{50} of 0.26 ppm and 96-hour LC_{50} of 0.09 ppm for oyster and spot (see Sodium Hypochlorite Standard, A. Stavola 1981). Trichloro-s-triazinetrione can be characterized as very highly toxic to estuarine and marine organisms.

3. Risk Assessment

Exposure of nontarget organisms to chlorinated isocyanurates may occur via indirect discharge (effluents) or via accidental release (spills). The Agency does not conduct hazard assessments based on these routes of exposure but does, however, require some basic studies to establish precautionary label statements:

Precautionary Labeling

Manufacturing-use and end-use products used where an effluent may occur.

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

IV. RISK MANAGEMENT AND REREGISTRATION DECISION FOR THE CHLORINATED ISOCYANURATES

A. DETERMINATION OF ELIGIBILITY

Section 4(g)(2)(A) of FIFRA calls for the Agency to determine, after submission of relevant data concerning an active ingredient, whether products containing the active ingredient are eligible for reregistration. The Agency has previously identified and required the submission of the generic (i.e., active ingredient specific) data required to support reregistration of products containing chlorinated isocyanurate as an active ingredient. The Agency has completed its review of these generic data, and has determined that the data are sufficient to support reregistration of products containing chlorinated isocyanurate. Appendix B identifies the generic data requirements that the Agency reviewed as part of its determination of reregistration eligibility of the chlorinated isocyanurates, and lists the submitted studies that the Agency found acceptable.

The data identified in Appendix B are sufficient to allow the Agency to conduct a reasonable risk assessment for the registered uses of the chlorinated isocyanurates. The data available to the Agency support the conclusion that the registered uses of the chlorinated isocyanurates will not result in unreasonable adverse effects to the environment. The Agency has determined that all products which contain the chlorinated isocyanurates as the active ingredient are eligible for reregistration for all registered uses. The reregistration of particular products is addressed in section V of this document.

The Agency made its reregistration eligibility determination based upon the target data base required for reregistration, the current guidelines for conducting

acceptable studies to generate such data, and the data identified in Appendix B. Although the Agency has found that products containing the chlorinated isocyanurates are eligible for reregistration, it should be understood that the Agency may take appropriate regulatory action, and/or require the submission of additional data to support reregistration of products containing the chlorinated isocyanurates, if new information comes to the Agency's attention or if the data requirements for registration (or the guidelines for generating such data) change.

The following is a summary of the regulatory positions and rationales for the chlorinated isocyanurates. Where label revisions are imposed, specific language is set forth in Section V of this document.

Eligibility Decision

The Agency has sufficient information on the health effects of the chlorinated isocyanurates and on their potential for causing adverse effects in fish and wildlife and the environment for all uses registered for these chemicals. The Agency therefore concludes that products containing the chlorinated isocyanurates for these uses are eligible for reregistration. Only product chemistry data on certain manufacturing use products are still needed. The Agency has determined that the chlorinated isocyanurate products, labeled and used as specified in this Reregistration Eligibility Document, will not pose unreasonable risks or adverse effects to humans or the environment.

Eligible and Ineligible Uses

The Agency has determined that all aquatic food and non-food industrial and residential, greenhouse food, Indoor Medical and Indoor residential, as well as, all Indoor food and non-food uses are eligible for reregistration at this time.

B. REGULATORY POSITION

Tolerance Reassessment

There are currently no tolerances or exemptions from the requirements of a tolerance established for the chlorinated isocyanurate compounds and the Agency believes that none are needed. Further, there are no minor use considerations or Codex Maximum Residue Levels for the Chlorinated isocyanurates.

Endangered Species Statement

The Agency will not impose a special label advisory statement for endangered species at this time because the chlorine released from the chlorinated isocyanurates is so volatile there is little likelihood of exposure based on the registered patterns of use or from accidental spills.

Efficacy Data

Although the Agency has data in its files which adequately demonstrate the efficacy of hypochlorous acid, microbiological efficacy data will be required for some products.

V. ACTIONS REQUIRED BY REGISTRANTS

This section is designed to assist the registrant by listing all of the data requirements and responses necessary for the reregistration of both manufacturing-use (generic) and end-use (product specific) products.

A. MANUFACTURING USE PRODUCTS

1. Additional Generic Data Requirements

The generic data base supporting the reregistration of the chlorinated isocyanurates products has been reviewed and determined to be substantially complete. Although the generic product chemistry data requirements for some products are acceptable, additional product chemistry data are required to support the reregistration of other manufacturing-use/technical products. The products for which additional data are required will be reregistered once these data are submitted to and accepted by the Agency. The generic product chemistry data requirements and the products for which additional data are required are listed in Appendix F. Registrants are also reminded that any changes, since the registration standard was issued in 1988, in the manufacturing process for the technical chlorinated isocyanurates, and any detection of new impurities since that time, must be reported to the Agency.

2. Labeling Requirements for Manufacturing-Use Products

The labels and labeling of all products must comply with EPA's current regulations and requirements. Follow the instructions in the Product Reregistration Handbook with respect to labels and labeling. Any product label which

allows both manufacturing and end use must be amended to specify only manufacturing or end use. In this situation, if a registrant amends his/her label to specify manufacturing use only and wishes to retain end use registration, he/she must apply for a separate end-use product registration.

Based on the reviews of the generic data, the following additional (or revised) label statements are required:

a. In the directions for use, the following statement must appear:

   "Formulators using this product are responsible for obtaining EPA registration of their formulated products."

b. In the directions for use, the following statement regarding acceptable use patterns must appear:

   "For formulation into end-use products intended for (list acceptable sites)."

c. The following Environmental Hazard statement is required for any use that results in discharge into the aquatic environment:

   "This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA."

d. Under the Note to Physician, located near the Statement of Practical Treatment, the "If Swallowed" statement must read as follows:

   "IF SWALLOWED, drink large amounts of water. DO NOT induce vomiting. Avoid alcohol. Call a physician or poison control center immediately."

   For products in category I for eye irritation, add the following:

   "Probable mucosal damage may contraindicate the use of gastric lavage."

e. The current label claim for the technical chlorinated isocyanurates must be revised to reflect the nominal concentrations of the active ingredients as required in PR Notice 91-2.

B. END USE PRODUCTS

1. Additional Product-Specific Data Requirements

Based on the reviews of the generic data for chlorinated isocyanurates, the products containing the chlorinated isocyanurates are eligible for reregistration. Section 4(g)(2)(B) of FIFRA calls for the Agency to obtain any needed product-specific data regarding the pesticide after a determination of eligibility has been made. The product specific data requirements are listed in Appendix G, the Product Specific Data Call-In Notice.

If registrants have previously submitted these data, they must review the data submissions to ensure that they meet current EPA acceptance criteria (Appendix G; Attachment F) and if not, commit to conduct new studies. If the registrant believes that previously submitted data meet current testing standards, then study MRID numbers should be cited according to the instructions in the Requirement Status and Registrants Response Form provided for each product.

The Agency has decided to continue its current policy of waiving the product-by-product efficacy data requirement normally levied on sanitizers and disinfectants for chlorinated isocyanurate formulations. The Agency has concluded that the published literature can reasonably be extrapolated to the full range of these products. For those products for which this waiver cannot be granted product specific efficacy requirements will be provided.

2. Label Requirements for End-Use Products

The labels and labeling of all products must comply with EPA's current regulations and requirements. Follow the instructions in the Product Reregistration Handbook with respect to labels and labeling. Any product label which allows both manufacturing and end use must be amended to specify <u>only</u> manufacturing <u>or</u> end use. In this situation, if a registrant amends his/her label to specify manufacturing use only and wishes to retain end use registration, he/she must apply for a separate end-use product registration.

The Agency has determined that the current label precautions are still applicable and are required for

product reregistration. The following additional (or revised) label statements are required:

a. The labels must include the following reentry statement: Reentry into treated swimming pool/spas is prohibited above levels of 3 ppm of clorine.

b. Chlorinated isocyanurate products with commercial egg wash treatment on the label must contain the following:

Only clean, whole eggs can be used for sanitizing. Dirty, cracked or punctured eggs cannot be sanitized.

If the product is intended for use as both a cleaner and a sanitizer, separate directions for use as a cleaner must be provided and followed by a potable water rinse, preceding the directions for use as a sanitizer with a fresh solution.

The directions for use in sanitizing eggs must be similar to the following:

> "To sanitize clean shell eggs intended for food or food products, spray with a solution of x ounce(s) of product in x gallon(s) of water (providing x ppm active). The solution must be equal to or warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs that have been sanitized with this chlorine compound may be broken for use in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. The solution must not be reused for sanitizing eggs."
>
> x = Specify

If the product is intended or recommended for use in plants operating under the U.S. Department of Agriculture egg grading and egg products inspection programs, authorization must be obtained for the specific product. You should consult:

Compounds and Packaging Section
Food Ingredient Assessment Division, PSB
U.S. Department of Agriculture, FSIS
Building 306, BARC-East
Beltsville, MD 20705

If there is any question concerning compliance of the product with 21 CFR 178.1010, you should consult:

Division of Food and Color Additives
HF-330 CFSAN
Food and Drug Administration
200 C Street SW
Washington, D.C. 20209

c. Label claims for end-use products containing chlorinated isocyanurates must be revised to reflect the nominal concentration of the active ingredient(s) in accordance with PR Notice 91-2.

APPENDIX A

Table of Chlorinated Isocyanurate Use Patterns Subject to Reregistration

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081401 [Dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
FEED/FOOD USES													
Site: Dairy Farm Milk Handling Facilities/Equipment (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	234 W	234 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2)
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	234 W	234 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2)
Site: Food Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
Site: Dairies/Cheese Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
Site: Food Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
Site: Dairies/Cheese Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
Site: Eating Establishments Equipment/Utensils (Food Contact) (Use Group: INDOOR FOOD)													
mop, NOL, mop, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Eating Establishments Food Handling Areas (Nonfood Contact) (Use Group: INDOOR FOOD)													
mop, NOL, mop, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Eating Establishments Food Serving Areas (Nonfood Contact) (Use Group: INDOOR FOOD)													
mop, NOL, mop, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081401 [Dichloro-s-triazinetrione]

Application Type / Application Timing / Application Equipment / Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Pattern Limitations (also see Abbreviations)
USES ELIGIBLE FOR REREGISTRATION										
Site: Eating Establishments Food Serving Areas (Nonfood Contact) (Use Group: INDOOR FOOD) *(Continued from previous page)*										
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
NON-FEED/NON-FOOD USES										
Site: Household/Domestic Dwellings Indoor Premises (Use Group: INDOOR RESIDENTIAL)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Household/Domestic Dwellings Contents (Use Group: INDOOR RESIDENTIAL)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Residential Floors (Use Group: INDOOR RESIDENTIAL)										
scrub, NOL, brush, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
scrub, NOL, mechanical scrubber, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Hospitals/Medical Institutions Premises (Human/Veterinary) (Use Group: INDOOR MEDICAL)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Hospital Noncritical Items (Bedpans/Furniture) (Use Group: INDOOR MEDICAL)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Hospital/Medical Institutions Non-Conductive Floors (Use Group: INDOOR MEDICAL)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)

APPENDIX A - Case 0569, [Chlorinated Isocyanurates] Chemical 081401 [Dichloro-s-triazinetrione]

Application Type / Application Timing / Application Equipment / Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
								Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION										
Site: Commercial/Institutional/Industrial premises/Equipment (Indoor) (Use Group: INDOOR NON-FOOD)										
mop, NOL, mop, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
sponge-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
wipe-on, NOL, cloth, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
Site: Commercial/Institutional/Industrial Premises/Equipment (Indoor) (Use Group: INDOOR NON-FOOD)										
equipment treatment, NOL, NOL, hard	SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
indoor premise treatment, NOL, NOL, hard	SC/S	117 W	117 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
Site: Commercial/Institutional/Industrial Floors (Use Group: INDOOR NON-FOOD)										
scrub, NOL, brush, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)
scrub, NOL, mechanical scrubber, hard	SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10)

Abbreviations used

Header: max = maximum; min = minimum; Apps = applications
Form: SC/S = Soluble Concentrate/Solid
Rate: ppm avail cl = parts per million of available chlorine; W = by Weight; NC = not calculated
In general: NA = not applicable; NS = not specified; NOL = not on the label

Use pattern limitations:
A 06 = potable water rinse (non-residual claim)
A 08 = preclean claim
A 10 = minutes contact time

APPENDIX A - Case 0569, Chlorinated Isocyanurates; Chemical 081403 [Potassium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface type	Form	Minimum Application Rate (ppm available chlorine)	Maximum Application Rate (ppm available chlorine)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval (Days)	Geographic Limitations		Use Limitations* (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
FOOD/FEED													
Site: Egg Washing Treatments (commercial) (Use Group: INDOOR FOOD)													
spray, NOL, sprayer, hard				SC/S	99 W	99 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
spray, NOL, NOL, hard				SC/S	111 W	153 W	NS	NS	NA	NA	NA	NA	A 08.
immersion, NOL, NOL, hard				SC/S	111 W	111 W	NS	NS	NA	NA	NA	NA	C 23; A 10 (3).
rinse, NOL, NOL, hard				SC/S	44 W	44 W	NS	NS	NA	NA	NA	NA	C 23.
wash, NOL, by hand, hard				SC/S	111 W	111 W	NS	NS	NA	NA	NA	NA	C 23; A 10 (3).
wash, NOL, sprayer, hard				SC/S	111 W	111 W	NS	NS	NA	NA	NA	NA	C 23.
wash, NOL, tank, hard				SC/S	80 W	80 W	NS	NS	NA	NA	NA	NA	NA
Site: Egg Washing Treatments (hatching) (Use Group: INDOOR FOOD)													
spray, NOL, sprayer, hard				SC/S	99 W	99 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
wash, NOL, NOL, hard				SC/S	55 W	55 W	NS	NS	NA	NA	NA	NA	A 10 (3); C 23.
Site: Dairy Farm Milk Handling Facilities/Equipment (Use Group: INDOOR FOOD)													
circulation method, NOL, NOL, hard				SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (10); A 26 (15).
fog, NOL, NOL, hard				SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (10).
rinse, NOL, NOL, hard				SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A10 (10).
spray, NOL, NOL, hard				SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A10 (10).
wash, NOL, brush, hard				SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (10); A 26 (15).
surface treatment, NOL, NOL, hard				P/T	192 W	192 W	NS	NS	NA	NA	NA	NA	A 02.
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	102 W	248 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
circulation method, NOL, NOL, hard				SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A08; A 25 (10); A 26 (15).
wash, NOL, brush, hard				SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (10); A 26 (15).
immersion, NOL, NOL, hard				SC/S	248 W	248 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
Site: Food Processing Water Systems (Use Group: INDOOR FOOD)													
immersion, NOL, NOL, NA				SC/S	332 W	332 W	NS	NS	NA	NA	NA	NA	A 08; A 06; A 10 (10).

APPENDIX A - Case 0569, Chlorinated Isocyanurates; Chemical 081403 [Potassium dichloro-s-triazinetrione]

Application Type, Application Timing, Application Equipment, Surface type	Form	Minimum Application Rate (ppm available chlorine)	Maximum Application Rate (ppm available chlorine)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval (Days)	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Limitations* (also see Abbreviations)
Site: Food Processing Plant Premises (nonfood contact) (Use Group: INDOOR FOOD)										
surface treatment, NOL, NOL, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); A 26 (5); C 23.
indoor premise treatment, NOL, NOL, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
brush-on, NOL, brush, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
spray, NOL, NOL, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
soak, NOL, NOL, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
Site: Dairies/cheese processing plant premises (nonfood contact) (Use group: INDOOR FOOD)										
surface treatment, NOL, NOL, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); A 26 (5); C 23.
indoor premise treatment, NOL, NOL, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard	SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
Site: Meat Processing plant Premises (nonfood contact) (Use Group: INDOOR FOOD)										
indoor premise treatment, NOL, NOL, hard	SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 08.
indoor premise treatment, NOL, NOL, porous	SC/S	1326 W	1326 W	NS	NS	NA	NA	NA	NA	A 08.
surface treatment, NOL, NOL, hard	SC/S	99 W	99 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 18; C 23.
Site: Poultry Processing Plant Premises (nonfood contact) (Use Group: INDOOR FOOD)										
indoor premise treatment, NOL, NOL, hard	SC/S	442 W	442 W	NS	NS	NA	NA	NA	NA	A 08.
indoor premise treatment, NOL, NOL, porous	SC/S	1326 W	1326 W	NS	NS	NA	NA	NA	NA	A 08.
surface treatment, NOL, NOL, hard	SC/S	99 W	99 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 18; C 23.
Site: Food Processing Plant Equipment (food contact) (Use Group: INDOOR FOOD)										
immersion, NOL, tank, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
spray, NOL, sprayer, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
surface treatment, NOL, NOL, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
dip, NOL, NOL, hard	SC/S	55 W	99 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
equipment treatment, NOL, NOL, hard	SC/S	100 W	102 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23.
immersion, NOL, NOL, hard	SC/S	103 W	103 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2).

APPENDIX A - Case 0569, Chlorinated isocyanurates; Chemical 081403 [Potassium dichloro-s-triazinetrione]

Application Type / Application Timing / Application Equipment / Surface type	Form	Minimum Application Rate (ppm available chlorine)	Maximum Application Rate (ppm available chlorine)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval (Days)	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Limitations' (also see Abbreviations)
Site: Food Processing Plant Equipment (food contact) (Use Group: INDOOR FOOD) (continued from previous page)										
brush-on, NOL, brush, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
circulation method, NOL, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
spray, NOL, NOL, hard	SC/S	606 W	1213 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
soak, NOL, NOL, hard	SC/S	104 W	104 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); C 23.
Site: Dairies/Cheese Processing Plant Equipment (food contact) (Use Group: INDOOR FOOD)										
immersion, NOL, tank, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
spray, NOL, sprayer, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
surface treatment, NOL, NOL, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
dip, NOL, NOL, hard	SC/S	55 W	99 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
spray, NOL, sprayer, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10(1); A 25 (2); A 26 (5); C 23.
equipment treatment, NOL, NOL, hard	SC/S	100 W	102 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23.
equipment treatment, NOL, NOL, hard	P/T	187 W	187 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23.
immersion, NOL, NOL, hard	SC/S	103 W	103 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2).
Site: Meat Processing Plant Equipment (food contact) (Use Group: INDOOR FOOD)										
equipment treatment, NOL, NOL, hard	SC/S	99 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); A 26 (5); C 18; C 23.
immersion, NOL, NOL, hard	SC/S	103 W	103 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2).
Site: Poultry Processing Plant Equipment (food contact) (Use Group: INDOOR FOOD)										
equipment treatment, NOL, NOL, hard	SC/S	99 W	442 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); A 26 (5); C 18; C 23.
Site: Eating Establishments Equipment/Utensils (food contact) (Use Group: INDOOR FOOD)										
immersion, NOL, tank, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
spray, NOL, sprayer, hard	SC/S	55 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
surface treatment, NOL, NOL, hard	SC/S	221 W	221 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
dip, NOL, NOL, hard	SC/S	55 W	99 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
immersion, NOL, NOL, hard	SC/S	102 W	124 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23.
equipment treatment, NOL, NOL, hard	SC/S	102 W	102 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
scrub, NOL, NOL, hard	SC/S	4720 W	4720 W	NA	NS	NA	NA	NA	NA	NA
equipment treatment, NOL, NOL, hard	P/T	94 W	94 W	NS	NS	NA	NA	NA	NA	NA

APPENDIX A - Case 0569, Chlorinated isocyanurates; Chemical 081403 [Potassium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface type	Form	Minimum Application Rate (ppm available chlorine)	Maximum Application Rate (ppm available chlorine)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval (Days)	Geographic Limitations		Use Limitations* (also see Abbreviations)
											Allowed	Disallowed	
Site: Eating Establishments Equipment/Utensils (food contact) (Use Group: INDOOR FOOD) (continued from previous page)													
rinse, NOL, NOL, hard				SC/S	266 W	266 W	NS	NS	NA	NA	NA	NA	A 08.
Site: Household/Domestic Dwellings Indoor Premises (Use Group: INDOOR RESIDENTIAL)													
indoor premise treatment, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
scrub, NOL, NOL, hard				SC/S	4720 W	4720 W	NS	NS	NA	NA	NA	NA	NA
Site: Household/Domestic Dwellings Contents (Use Group: INDOOR RESIDENTIAL)													
scrub, NOL, NOL, hard				SC/S	4720 W	4720 W	NS	NS	NA	NA	NA	NA	NA
Site: Residential Floors (Use Group: INDOOR RESIDENTIAL)													
indoor premise treatment, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
spray, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; C 23.
NON-FOOD/NON-FEED													
Site: Hospitals/Medical Institutions Premises (Use Group: INDOOR MEDICAL)													
indoor premise treatment, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
Site: Toilet Bowls (interior surfaces) Use Group: INDOOR RESIDENTIAL)													
scrub, NOL, NOL, NOL* (hard)				SC/S	4720 W	4720 W	NS	NS	NA	NA	NA	NA	NA
surface treatment, NOL, brush, hard				P/T	749 W	749 W	NS	NS	NA	NA	NA	NA	NA
Site: Bathroom Premises/Hard Surfaces (Use Group: INDOOR RESIDENTIAL)													
scrub, NOL, NOL, hard				SC/S	4720 W	4720 W	NS	NS	NA	NA	NA	NA	NA
Site: Swimming Pool Water Systems (Use Group: AQUATIC NON-FOOD RESIDENTIAL)													
water treatment, initial, NOL, NA				SC/S	1 W	4 W	NS	NS	NS, 1	NA	NA	NA	A 23 (7.2); A 24 (7.6, 7.8).
water treatment, shock/slug, NOL, NA				SC/S	2 W	9 W	NS	NS	NS, 7, 14	NA	NA	NA	A 23 (7.2); A 24 (7.6, 7.8); C 18; C 23.

APPENDIX A - Case 0569, Chlorinated Isocyanurates; Chemical 081403 [Potassium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface type	Form	Minimum Application Rate (ppm available chlorine)	Maximum Application Rate (ppm available chlorine)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval (Days)	Geographic Limitations		Use Limitations' (also see Abbreviations)
											Allowed	Disallowed	
Site: Swimming Pool Water Systems (Use Group: AQUATIC NON-FOOD RESIDENTIAL) (continued from previous page)													
water treatment, subsequent/maintenance, NOL, NA				SC/S	<1 W	2 W	NS	NS	NS, 1, 2	NA	NA	NA	A 23 (7.2); A 24 (7.6, 7.8); C 18; C 23.
water treatment, initial, portable chlorinator, NA				SC/S	2 W	2 W	NS	NS	NA	NA	NA	NA	A 23 (7.2); A 24 (7.6).
water treatment, subsequent/maintenance, portable chlorinator, NA				SC/S	2 W	2 w	NS	NS	NS	NA	NA	NA	A 23 (7.2); A 24 (7.6).
Site: Eating Establishments Food Handling Areas (nonfood contact) (Use Group: INDOOR NON-FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
surface treatment, NOL, NOL, hard				P/T	192 W	192 W	NS	NS	NA	NA	NA	NA	NA
Site: Eating Establishments Food Serving Areas (nonfood contact) (Use Group: INDOOR NON-FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); A 25 (2); A 26 (5); C 23.
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
spray, NOL, sprayer, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (1); C 23.
Site: Commercial/Institutional/Industrial Floors (Use Group: INDOOR NON-FOOD)													
surface treatment, NOL, NOL, hard				P/T	192 W	192 W	NS	NS	NA	NA	NA	NA	NA
Site: Laundry (commercial) (Use Group: INDOOR NON-FOOD)													
wash, NOL, NOL, porous				P/T	469 W	469 W	NS	NS	NA	NA	NA	NA	NA
Site: Refuse/Solid Waste Containers (garbage cans) (Use Group: INDOOR NON-FOOD)													
surface treatment, NOL, NOL, hard				P/T	187 W	187 W	NS	NS	NA	NA	NA	NA	NA

Abbreviations used

Header: max = maximum; min = minimum; apps = applications
Form: G = Granular; I = Impregnated material; P/T = Pelleted/Tableted; SC/L = Soluble Concentrate/Liquid; SC/S = Soluble Concentrate/Solid; FNI/S = Form Not Identified/Solid
Rate: AI = active ingredient; ppm = parts per million; Vol. = by volume; W = by weight

n/a = not applicable
NOL = not on label
NS = not specified
NC = no calculation
NA = not applicable

Use Pattern Limitations
* = All codes not on all labels.
A 02 = Inedible product area.
A 06 = Potable water rinse.
A 08 = Preclean claim.
A 23 = pH, minimum in parentheses
A 24 = pH, maximum in parentheses
A 25 = Minimum contact time, minutes in parentheses.
A 26 = Maximum contact time, minutes in parentheses.
C 18 = Do not discharge effluent containing this pesticide into sewage systems without notifying sewage treatment plant authority.
C 23 = NPDES license restriction.
C 24 = Do not discharge effluent containing this pesticide into lakes, streams, ponds, estuaries, oceans, or public water. (NPDES license restriction)

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
FEED/FOOD USES													
Site: Poultry (Egg/Meat) (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	567 W	567 W	NS	NS	NA	NA	NA	NA	A 06; A 08
feeding and watering appliance treatment, NOL, NOL, hard				SC/S	567 W	567 W	NS	NS	NA	NA	NA	NA	A 06; A 08
indoor premise treatment, NOL, NOL, hard				SC/S	567 W	567 W	NS	NS	NA	NA	NA	NA	A 06; A 08
transportation vehicle treatment, NOL, NOL, hard				SC/S	567 W	567 W	NS	NS	NA	NA	NA	NA	A 06; A 08
indoor premise treatment, NOL, sprayer, hard				SC/S	1062 W	1062 W	NS	NS	NA	NA	NA	NA	A 08
rinse, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
spray, NOL, sprayer, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
Site: Egg Handling Equipment (Commercial) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (1); C 23
equipment treatment, NOL, NOL, hard				SC/S	202 W, NC	202 W, NC	NS	NS	NA	NA	NA	NA	A 06; A 25 (1); C 23
mop, NOL, mop, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (1); C 23
spray, NOL, NOL, hard				SC/S	98 W, NC	98 W, NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (1); A 25 (2); C 23
Site: Egg Washing Treatments (Commercial) (Use Group: INDOOR FOOD)													
spray, NOL, mechanical sprayer, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	C 23
egg treatment, NOL, NOL, hard				SC/S	12797 V	12797 V	NS	NS	NA	NA	NA	NA	NA
spray, NOL, sprayer, hard				SC/S	102 W	102 W	NS	NS	NA	NA	NA	NA	A 08; C 23
rinse, NOL, NOL, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (1); C 23
spray, NOL, NOL, hard				SC/S	165 W	330 W	NS	NS	NA	NA	NA	NA	C 23
spray, NOL, sprayer, hard				SC/S	101 W	101 W	NS	NS	NA	NA	NA	NA	A 08
wash, NOL, NOL, hard				SC/S	118 W	236 W	NS	NS	NA	NA	NA	NA	A 08; C 23
spray, NOL, mechanical sprayer, hard				SC/S	119 W	119 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Egg Handling Rooms (Commercial) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	202 W	202 W	NS	NS	NA	NA	NA	NA	A 06

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Egg Washing Treatments (Hatching) (Use Group: INDOOR FOOD)													
spray, NOL, mechanical sprayer, hard				SC/S	106 W	119 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Dairy Farm Milk Handling Facilities/Equipment (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	101 W	913 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (4); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
wipe-on, NOL, NOL, hard				SC/S	228 W	228 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD)													
immersion, NOL, tank, hard				T/P SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				T/P SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	114 W	NS	NS	NA	NA	NA	NA	A 10 (2); A 25 (1)
equipment treatment, NOL, cloth, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
equipment treatment, NOL, machine apparatus, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
circulation method, NOL, NOL, hard				SC/S	98 W	151 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30); C 23
immersion, NOL, NOL, hard				SC/S	102 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (4); C 23
spray, NOL, NOL, hard				SC/S	102 W	165 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (4); C 23
circulate-in-place (CIP) treatment, NOL, NOL, hard				SC/S	105 W	134 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (5); C 23
equipment treatment, NOL, NOL, hard				SC/S	94 W	134 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2); A 25 (5); C 23
equipment treatment, NOL, by hand, hard				T/P	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
circulate-in-place (CIP) treatment, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, hard				SC/S	98 W	107 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD) *(Continued from previous page)*													
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
brush-on, NOL, brush, hard				SC/S	107 W	151 W	NS	NS	3	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30); C 23
wipe-on, NOL, NOL, porous				SC/S	913 W	913 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (4)
dip, NOL, NOL, hard				SC/S	107 W	165 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
brush-on, NOL, NOL, hard				SC/S	165 W	165 W	NS	NS	NA	NA	NA	NA	A 25 (2); C 23
wipe-on, NOL, NOL, hard				SC/S	125 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
soak, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
Site: Household/Domestic Dwellings Indoor Food Handling Areas (Use Group: INDOOR FOOD)													
immersion, NOL, tank, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); C 23
Site: Mushroom Houses-Empty Premises/Equipment (Use Group: GREENHOUSE FOOD CROP)													
wash, NOL, sprayer, hard				SC/S	102 W	102 W	NS	NS	NA	NA	NA	NA	A 08
Site: Human Drinking Water Systems (Use Group: AQUATIC FOOD CROP)													
water treatment, NOL, NOL, NA				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (7); A 26 (15)
Site: Human Drinking Water Systems (Use Group: INDOOR FOOD)													
water treatment, surface treatment, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Food Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	101 W	644 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); C 23
spray, NOL, mechanical sprayer, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
indoor premise treatment, NOL, sprayer, hard				SC/S	94 W	1917 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
spray, NOL, NOL, hard				SC/S	4918 W	4918 W	NS	NS	NA	NA	NA	NA	A 08; C 23

APPENDIX A - Case 0569, [Chlorinated Isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Food Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
indoor premise treatment, NOL, brush, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
indoor premise treatment, NOL, mop, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
indoor premise treatment, NOL, sponge, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
Site: Dairies/Cheese Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
indoor premise treatment, NOL, sprayer, hard				SC/S	1369 W	1917 W	NS	NS	NA	NA	NA	NA	C 23
spray, NOL, NOL, NA				SC/S	4918 W	4918 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Meat Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, sprayer, hard				SC/S	1369 W	1917 W	NS	NS	NA	NA	NA	NA	C 23
indoor premise treatment, NOL, NOL, hard				SC/S	590 W	1095 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
fog, NOL, NOL, hard				SC/S	590 W	590 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
Site: Food Processing Plant Pquipment (Food Contact) (Use Group: INDOOR FOOD)													
immersion, NOL, tank, hard				T/P SC/S	59 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				T/P SC/S	59 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
dip, NOL, NOL, hard				SC/S	59 W	165 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (3); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); C 23
equipment treatment, NOL, NOL, hard				SC/S	68 W	209 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
equipment treatment, NOL, cloth, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
equipment treatment, NOL, machine apparatus, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
circulation method, NOL, NOL, hard				SC/S	98 W	102 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
immersion, NOL, NOL, hard				SC/S	102 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23

APPENDIX A - Case 0569, [Chlorinated Isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Food Processing Plant Pquipment (Food Contact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
spray, NOL, NOL, hard				SC/S	98 W	165 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
equipment treatment, NOL, by hand, hard				T/P	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
circulate-in-place (CIP) treatment, NOL, NOL, hard				SC/S	105 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30)
circulate-in-place (CIP) treatment, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, hard				SC/S	94 W	312 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2); A 25 (5); A 25 (10); C 23
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
brush-on, NOL, brush, hard				SC/S	94 W	107 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (10); C 23
brush-on, NOL, NOL, hard				SC/S	165 W	165 W	NS	NS	NA	NA	NA	NA	A 25 (2); C 23
flush treatment, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
rinse, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
wipe-on, NOL, NOL, hard				SC/S	125 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
soak, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
equipment treatment, NOL, NOL, porous				SC/S	626 W	626 W	NS	NS	NA	NA	NA	NA	A 06; C 23
mop, NOL, mop, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
sponge-on, NOL, sponge, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
Site: Dairies/Cheese Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
immersion, NOL, tank, hard				T/P SC/S	59 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				T/P SC/S	59 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
dip, NOL, NOL, hard				SC/S	59 W	165 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (3); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); C 23
equipment treatment, NOL, cloth, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
equipment treatment, NOL, machine apparatus, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Dairies/Cheese Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD) *(Continued from previous page)*													
equipment treatment, NOL, NOL, hard				SC/S	97 W	137 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
circulation method, NOL, NOL, hard				SC/S	98 W	102 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
immersion, NOL, NOL, hard				SC/S	66 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
spray, NOL, NOL, hard				SC/S	102 W	165 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
equipment treatment, NOL, by hand, hard				T/P	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
circulate-in-place (CIP) treatment, NOL, NOL, hard				SC/S	105 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30)
circulate-in-place (CIP) treatment, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, hard				SC/S	98 W	312 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2); A 25 (5); C 23
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
brush-on, NOL, brush, hard				SC/S	104 W	118 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2); C 23
brush-on, NOL, NOL, hard				SC/S	165 W	165 W	NS	NS	NA	NA	NA	NA	A 25 (2); C 23
flush treatment, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2)
rinse, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2)
wipe-on, NOL, NOL, hard				SC/S	125 W	125 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
soak, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
Site: Meat Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	98 W	1095 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23; C 24
circulate-in-place (CIP) treatment, NOL, NOL, hard				SC/S	105 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30)
circulate-in-place (CIP) treatment, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, hard				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, hard				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Meat Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
brush-on, NOL, brush, hard				SC/S	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08
circulation method, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
soak, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
wash, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
Site: Poultry Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
circulate-in-place (CIP) treatment, NOL, NOL, hard				SC/S	105 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (20); A 26 (30)
circulate-in-place (CIP) treatment, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, hard				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, hard				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
brush-on, NOL, brush, hard				SC/S	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08
circulation method, NOL, NOL, hard				SC/S	98 W	106 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
soak, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
wash, NOL, NOL, hard				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 08
equipment treatment, NOL, NOL, hard				SC/S	100 W	103 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 24
spray, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 25 (2); C 23
Site: Eating Establishment (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	101 W	644 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 25 (1)
spray, NOL, mechanical sprayer, hard				SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
scrub, NOL, NOL, hard				SC/S	240 W	240 W	NS	NS	NA	NA	NA	NA	A 08; C 24
wipe-on, NOL, NOL, hard				SC/S	228 W	228 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
indoor premise treatment, NOL, brush, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23

APPENDIX A - Case 0569, [Chlorinated Isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Eating Establishment (Use Group: INDOOR FOOD) (*Continued from previous page*)													
indoor premise treatment, NOL, mop, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
indoor premise treatment, NOL, sprayer, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
indoor premise treatment, NOL, sponge, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
Site: Eating Establishments Food Handling Areas (Food Contact) (Use Group: INDOOR FOOD)													
rinse, NOL, NOL, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
surface treatment, NOL, NOL, hard				SC/S	207 W	207 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Eating Establishments Equipment/Utensils (Food Fontact) (Use Group: INDOOR FOOD)													
immersion, NOL, tank, hard				T/P SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				T/P SC/S	101 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	114 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); C 23
equipment treatment, NOL, NOL, hard				SC/S	102 W	102 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
immersion, NOL, NOL, hard				T/P SC/S	66 W, NC	239 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 25 (0.5); A 25 (2); C 23; C 24
wash, NOL, dishwashing machine, hard				T/P	NC	NC	NS	NS	NA	NA	NA	NA	NA
equipment treatment, NOL, by hand, hard				T/P	118 W	118 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
immersion, NOL, NOL, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 25 (2)
spray, NOL, sprayer, hard				SC/S	94 W	312 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 25 (5); A 25 (10); C 23
spray, NOL, sprayer, porous				SC/S	105 W	105 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
wipe-on, NOL, NOL, hard				SC/S	125 W	240 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 24
wash, NOL, NOL, hard				SC/S	718 W	1435 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 24
spray, NOL, NOL, hard				SC/S	114 W	114 W	NS	NS	NA	NA	NA	NA	A 08
wipe-on, NOL, NOL, porous				SC/S	228 W	228 W	NS	NS	NA	NA	NA	NA	A 25 (2)
brush-on, NOL, brush, hard				SC/S	94 W	107 W	NS	NS	1	NA	NA	NA	A 08; A 25 (2); A 25 (10); C 23
dip, NOL, NOL, hard				SC/S	66 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); C 23
immersion, NOL, sink, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 25 (1)

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Eating Establishments Equipment/Utensils (Food Fontact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
flush treatment, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
rinse, NOL, NOL, hard				SC/S	104 W	104 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2)
mop, NOL, mop, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
sponge-on, NOL, sponge, hard				SC/S	94 W	94 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (10); C 23
Site: Eating Establishments Food Handling Areas (Nonfood Contact) (Use Group: INDOOR FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	119 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	119 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23
spray, NOL, mechanical sprayer, hard				SC/S	119 W	119 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (2); A 26 (5); C 23
Site: Food Dispensing Equipment/Vending Machines (Use Group: INDOOR FOOD)													
equipment treatment, NOL, NOL, hard				SC/S	240 W	359 W	NS	NS	7	NA	NA	NA	A 08; A 25 (10); C 24
rinse, NOL, NOL, hard				SC/S	240 W	718 W	NS	NS	1	NA	NA	NA	A 08; C 24
scrub, NOL, NOL, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; C 24
contact and/or surface treatment, NOL, NOL, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 25 (1)
immersion, NOL, NOL, hard				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 25 (1)
NON-FEED/NON-FOOD USES													
Site: Egg Plants/Hatcheries/Brooder Rooms/Shoe Baths (Hatching) (Use Group: INDOOR NON-FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	644 W	644 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Mushroom Houses-Empty Premises/Equipment (Use Group: INDOOR NON-FOOD)													
wash, NOL, sprayer, hard				SC/S	205 W	511 W	NS	NS	NA	NA	NA	NA	A 08
Site: Residential Floors (Use Group: INDOOR RESIDENTIAL)													
indoor premise treatment, NOL, mechanical sprayer, hard				SC/S	101 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); A 25 (2); A 26 (5); C 23
pour-on, NOL, NOL, hard				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	A 08; A 25 (1); C 23
Site: Pasteurizer/Warmer/Cannery Cooling Water Systems (Use Group: INDOOR NON-FOOD)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	47 W	101 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24

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Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Pattern Limitations (also see Abbreviations)
USES ELIGIBLE FOR REREGISTRATION													
Site: Pasteurizer/Warmer/Cannery Cooling Water Systems (Use Group: INDOOR NON-FOOD) *(Continued from previous page)*													
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	13 W	47 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	47 W	101 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	13 W	101 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
Site: Swimming Pool Water Systems (Use Group: AQUATIC NON-FOOD RESIDENTIAL)													
water treatment, initial, NOL, NA				SC/S	<1 W, NC	11 W, NC	NS	NS	7	NA	NA	NA	A 08; A 23 (7.2); A 23 (7.4); A 23 (7.5); A 24 (7.6); A 24 (7.8); A 24 (8.0); C 23; C 24
water treatment, shock/slug, NOL, NA				SC/S	<1 W, NC	139 W, NC	NS	NS	1 7 14	NA	NA	NA	A 08; A 23 (7.2); A 23 (7.4); A 23 (7.5); A 24 (7.6); A 24 (7.8); A 24 (8.0); C 23; C 24
water treatment, subsequent/maintenance, NOL, NA				SC/S	<1 W, NC	9 W, NC	NS	NS	1 2	NA	NA	NA	A 08; A 23 (7.2); A 23 (7.4); A 23 (7.5); A 24 (7.6); A 24 (7.8); A 24 (8.0); C 23; C 24
water treatment, NOL, NOL, NA				SC/S	NC	NC	NS	NS	3.5 7	NA	NA	NA	A 23 (7.2); A 23 (7.4); A 24 (7.5); A 24 ()7.6; A 24 (7.8); C 23; C 24
water treatment, initial, skimmer basket, NA				SC/S	4 W, NC	10 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 23 (7.4); A 24 (7.6); A 24 (7.8); C 23
water treatment, shock/slug, skimmer basket, NA				SC/S	2 W, NC	11 W, NC	NS	NS	7 14	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 24 (7.8); C 23; C 24
water treatment, subsequent/maintenance, skimmer basket, NA				SC/S	1 W, NC	3 W, NC	NS	NS	1	NA	NA	NA	A 23 (7.2); A 24 (7.6); A 24 (7.8); C 23; C 24
water treatment, nighttime, pail, NA				SC/S	15 W	15 W	NS	NS	NA	NA	NA	NA	A 23 (7.4); A 24 (7.6); C 23
water treatment, winterizing, pail, NA				SC/S	8 W	8 W	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.4); A 24 (7.6)
water treatment, evening, NOL, NA				SC/S	4 W	4 W	NS	NS	NA	NA	NA	NA	A 23 (7.2); A 24 (7.8)
water treatment, shock/slug, pail, NA				SC/S	5 W	5 W	NS	NS	NA	NA	NA	NA	A 23 (7.2); A 24 (7.8)
water treatment, subsequent/maintenance, pail, NA				SC/S	1 W	1 W	NS	NS	NA	NA	NA	NA	A 23 (7.2); A 24 (7.8)
water treatment, NOL, scoop, NA				SC/S	8 W	8 W	NS	NS	1	NA	NA	NA	A 23 (7.2); A 24 (7.6)
water treatment, NOL, winterizing, NA				SC/S	7 W	7 W	NS	NS	NA	NA	NA	NA	A 23 (7.4); A 24 (7.6); C 24

APPENDIX A - Case 0569, [Chlorinated Isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type / Application Timing / Application Equipment / Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Pattern Limitations (also see Abbreviations)
USES ELIGIBLE FOR REREGISTRATION										
Site: Swimming Pool Water Systems (Use Group: AQUATIC NON-FOOD RESIDENTIAL) *(Continued from previous page)*										
water treatment, morning, NOL, NA	SC/S	1 W	1 W	NS	NS	NA	NA	NA	NA	A 23 (7.2); A 24 (7.6); C 23
water treatment, nighttime, NOL, NA	SC/S	1 W	1 W	NS	NS	1	NA	NA	NA	A 23 (7.2); A 24 (7.6); C 23
Site: Air Washer Water Treatment (Use Group: AQUATIC NON-FOOD INDUSTRIAL)										
water treatment, continuous feed (initial), NOL, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, continuous feed (subsequent), NOL, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, intermittent (slug) (initial), NOL, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, intermittent (slug) (subsequent), NOL, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, continuous feed (initial), skimmer basket, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, continuous feed (subsequent), skimmer basket, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, intermittent (slug) (initial), skimmer basket, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, intermittent (slug) (subsequent), skimmer basket, NA	T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water recirculating system treatment, initial, NOL, NA	SC/S	<1 W	1 W	NS	NS	NA	NA	NA	NA	A 08; C 24
water recirculating system treatment, subsequent/maintenance, NOL, NA	SC/S	<1 W	<1 W	NS	NS	NA	NA	NA	NA	A 08; C 24
water treatment, initial, NOL, NA	SC/S	4 W	6 W	NS	NS	NA	NA	NA	NA	C 23
water treatment, subsequent/maintenance, NOL, NA	SC/S	1 W	1 W	NS	NS	1	NA	NA	NA	C 23
Site: Commercial/Industrial Water Cooling Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL)										
water recirculating system treatment, continuous feed (initial), NOL, NA	SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA	SC/S	4 W	61 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Commercial/Industrial Water Cooling Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL) *(Continued from previous page)*													
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	4 W	61 W	NS	NS	7	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, initial, NOL, NA				T/P SC/S	<1 W, NC	35 W, NC	NS	NS	1	NA	IL IN MI Northeast	NA	A 08; A 23 (7.4); A 24 (7.8); C 23; C 24
water recirculating system treatment, subsequent/maintenance, NOL, NA				T/P SC/S	<1 W, NC	18 W, NC	NS	NS	1	NA	NA	NA	A 08; C 23; C 24
water recirculating system treatment, initial, skimmer basket, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water recirculating system treatment, subsequent/maintenance, skimmer basket, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water recirculating system treatment, shock/slug, NOL, NA				SC/S	9 W	25 W	NS	NS	30	NA	NA	NA	A 08; A 18 (7.0); A 23 (7.4); A 24 (7.8); C 23; C 24
water recirculating system treatment, NOL, NOL, NA				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	C 23
Site: Evaporative Condenser Water Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	4 W	61 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	4 W	61 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water treatment, initial, NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, subsequent/maintenance, NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water treatment, initial, skimmer basket, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Evaporative Condenser Water Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL) (*Continued from previous page*)													
water treatment, subsequent/maintenance, skimmer basket, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 08
water recirculating system treatment, initial, NOL, NA				SC/S	<1 W	1 W	NS	NS	NA	NA	NA	NA	A 08; C 24
water recirculating system treatment, subsequent/maintenance, NOL, NA				SC/S	<1 W	<1 W	NS	NS	NA	NA	NA	NA	A 08; C 24
Site: Ornamental Ponds/Aquaria (Use Group: AQUATIC NON-FOOD RESIDENTIAL)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
Site: Sewage Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL)													
sewage treatment, continuous feed (initial), NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	NA
sewage treatment, initial, NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	NA
sewage treatment, shock/slug, NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (15); A 26 (30)
sewage treatment, NOL, NOL, NA efficacy influencing factor: biological oxygen demand				T/P	NC	NC	NS	NS	NA	NA	NA	NA	A 25 (10); A 25 (15); A 26 (20)
sewage treatment, intermittent (slug) (initial), NOL, NA				T/P	NC	NC	NS	NS	NA	NA	NA	NA	NA
Site: Heat Exchanger Water Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	4 W	61 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Heat Exchanger Water Systems (Use Group: AQUATIC NON-FOOD INDUSTRIAL) *(Continued from previous page)*													
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	8 W	122 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	4 W	61 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water treatment, intermittent (slug) (initial), NOL, NA				SC/S	9 W	14 W	NS	NS	NA	NA	NA	NA	C 23
water treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	5 W	9 W	NS	NS	NA	NA	NA	NA	C 23
Site: Domestic/Commercial Nonpotable Water (Waterbed Water) (Use Group: AQUATIC NON-FOOD RESIDENTIAL)													
water treatment, NOL, NOL, NA				SC/S	16 W	16 W	NS	NS	NA	NA	NA	NA	NA
Site: Lakes/Ponds/Reservoirs (Without Human or Wildlife Use) (Use Group: AQUATIC NON-FOOD INDUSTRIAL)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
Site: Industrial Scrubbing System (Use Group: AQUATIC NON-FOOD INDUSTRIAL)													
water recirculating system treatment, continuous feed (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, continuous feed (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (initial), NOL, NA				SC/S	47 W	109 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
water recirculating system treatment, intermittent (slug) (subsequent), NOL, NA				SC/S	13 W	51 W	NS	NS	NA	NA	NA	NA	A 08; C 18; C 23; C 24
Site: Eating Establishments Food Handling Areas (Nonfood Contact) (Use Group: INDOOR NON-FOOD)													
spray, NOL, NOL, hard				SC/S	4918 W	4918 W	NS	NS	NA	NA	NA	NA	A 08; C 23

APPENDIX A - Case 0569, [Chlorinated isocyanurates] Chemical 081404 [Sodium dichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Eating Establishments Food Serving Areas (Nonfood Contact) (Use Group: INDOOR NON-FOOD)													
spray, NOL, NOL, hard				SC/S	4918 W	4918 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Hospital Noncritical Items (Bedpans/Furniture) (Use Group: INDOOR MEDICAL)													
surface treatment, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Commercial/Institutional/Industrial Premises/Equipment (Indoor) (Use Group: INDOOR NON-FOOD)													
indoor premise treatment, NOL, NOL, hard				SC/S	6846 W	6846 W	NS	NS	NA	NA	NA	NA	C 23
surface treatment, NOL, NOL, hard				SC/S	6846 W	6846 W	NS	NS	NA	NA	NA	NA	C 23
spray, NOL, NOL, hard				SC/S	4918 W	4918 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Laundry (Commercial) (Use Group: INDOOR NON-FOOD)													
wash, NOL, washing machines, porous				T/P SC/S	113 W, NC	457 W, NC	NS	NS	NA	NA	NA	NA	C 23
Site: Laundry (Household/Coin-Operated) (Use Group: INDOOR RESIDENTIAL)													
wash, NOL, washing machines, porous				SC/S	NC	NC	NS	NS	NA	NA	NA	NA	C 23
Site: Diapers (Commercial Laundry) (Use Group: INDOOR NON-FOOD)													
wash, NOL, washing machines, porous				SC/S	113 W	113 W	NS	NS	NA	NA	NA	NA	C 23
Site: Bathroom Premises/Hard Surfaces (Use Group: INDOOR RESIDENTIAL)													
surface treatment, NOL, NOL, hard				SC/S	98 W	98 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Refuse/Solid Waste Containers (Garbage Cans) (Use Group: INDOOR NON-FOOD)													
wash, NOL, NOL, hard				SC/S	1435 W	1435 W	NS	NS	1	NA	NA	NA	A 08; C 24

Abbreviations used:

Header: Apps = applications; ppm avail cl = parts per million of available chlorine
Form: SC/S = Soluble Concentrate/Solid; T/P = Tableted/Pelleted
Rate: V = by Volume; W = by Weight; NC = not calculated
Geographic Limitations:
IL = Illinois; IN = Indiana; MI = Michigan;
Northeast = Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont

In general: NA = Not applicable; NS = Not specified; NOL = Not on the label

Use Pattern Limitations
A 06 = Potable water rinse (non-residual claim)
A 08 = Preclean claim
A 23 = Minimum pH
A 24 = Maximum pH
A 25 = Minimum contact time in minutes
A 26 = Maximum contact time in minutes
C 18 = Do not discharge effluent containing this pesticide into sewage systems without notifying the sewage treatment plant authority.
C 23 = NPDES license restriction
C 24 = Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public water. (NPDES license restriction)

APPENDIX A - Case 0569 [Chlorinated Isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
FEED/FOOD USES													
Site: Poultry (Egg/Meat) (Use Group: INDOOR FOOD)													
feeding and watering appliance treatment, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
flush treatment, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
spray, NOL, pressure sprayer, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
premise treatment, NOL, NOL, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 16; C 18; C 24; C 27
Site: Egg Handling Equipment (Commercial) (Use Group: INDOOR FOOD)													
fog, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
spray, NOL, pressure sprayer, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Egg Washing Treatments (Commercial) (Use Group: INDOOR FOOD)													
wash, NOL, NOL, hard				G SC/S	97 W	667 W	NS	NS	NA	NA	NA	NA	A 06; A 08; C 23
immersion, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
spray, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Dairy Farm Milk Handling Facilities/Equipment (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
mop, NOL, mop, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
spray, NOL, pressure sprayer, hard				P/T G SC/S	97 W, NC	100 W, NC	NS	NS	NA	NA	NA	NA	A 08; C 23
rinse, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD)													
circulate-in-place (CIP) treatment, NOL, NOL, hard				P/T G SC/S	97 W, NC	100 W, NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); A 10 (10); C 23
spray, NOL, pressure sprayer, hard				P/T G SC/S	97 W, NC	100 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); C 23

APPENDIX A - Case 0569 [Chlorinated isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Dairy Farm Milking Equipment (Use Group: INDOOR FOOD) (*Continued from previous page*)													
rinse, NOL, NOL, hard				G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
Site: Agricultural/Farm Structures/Buildings and Equipment (Use Group: INDOOR FOOD)													
feeding and watering appliance treatment, NOL, NOL, hard				P/T SC/S	971 W	971 W	NS	NS	NA	NA	NA	NA	A 06; A 08
immersion, NOL, NOL, hard				P/T SC/S	971 W	971 W	NS	NS	NA	NA	NA	NA	A 08
equipment treatment, NOL, NOL, hard				P/T SC/S	971 W, NC	971 W, NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
premise treatment, NOL, NOL, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 23 (7.2); A 24 (7.6); C 18; C 24
immersion, NOL, tank, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 23 (7.2); A 24 (7.6); C 18; C 24
Site: Agricultural/Farm Premises (Use Group: INDOOR FOOD)													
premise treatment, NOL, NOL, hard				P/T SC/S	971 W	971 W	NS	NS	NA	NA	NA	NA	A 08
Site: Household/Domestic Dwellings Indoor Food Handling Areas (Use Group: INDOOR FOOD)													
sponge-on, NOL, sponge, hard				G	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (1.5)
wipe-on, NOL, pad, hard				G	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (1.5)
Site: Human Drinking Water Systems (Use Group: INDOOR FOOD)													
water treatment, shock/slug, NOL, NA				SC/S	634 W	634 W	NS	NS	NA	NA	NA	NA	A 10 (0-240); C 23
water treatment, subsequent/maintenance, NOL, NA				SC/S	106 W	106 W	NS	NS	NA	NA	NA	NA	A 10 (0-240); C 23
Site: Food Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	333 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23
mop, NOL, mop, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
swab, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
soak, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23

APPENDIX A - Case 0569 [Chlorinated Isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Food Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
rinse, NOL, NOL, hard				P/T G SC/S	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 23; C 24
spray, NOL, pressure sprayer, hard				P/T G SC/S	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; C 23
brush-on, NOL, brush, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
fog, NOL, fogger, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
mop, NOL, mop, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
sponge-on, NOL, sponge, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
spray, NOL, sprayer, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
wipe-on, NOL, cloth, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
Site: Dairies/Cheese Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	333 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23
mop, NOL, mop, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
swab, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
soak, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
rinse, NOL, NOL, hard				P/T SC/S	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 24
spray, NOL, pressure sprayer, hard				SC/S	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08
brush-on, NOL, brush, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24

APPENDIX A - Case 0569 [Chlorinated isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Dairies/Cheese Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD) (*Continued from previous page*)													
fog, NOL, fogger, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
mop, NOL, mop, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
sponge-on, NOL, sponge, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
spray, NOL, sprayer, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
wipe-on, NOL, cloth, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
Site: Meat Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	333 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23
mop, NOL, mop, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
swab, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
soak, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
brush-on, NOL, brush, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
fog, NOL, fogger, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
mop, NOL, mop, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
rinse, NOL, NOL, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 24
sponge-on, NOL, sponge, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
spray, NOL, sprayer, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
wipe-on, NOL, cloth, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
premise treatment, NOL, NOL, hard				SC/S	110 W	110 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2-5); C 18; C 24

APPENDIX A - Case 0569 [Chlorinated Isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type / Application Timing / Application Equipment / Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations: Allowed	Geographic Limitations: Disallowed	Use Pattern Limitations (also see Abbreviations)
USES ELIGIBLE FOR REREGISTRATION										
Site: Poultry Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)										
brush-on, NOL, brush, hard	SC/S	333 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23
mop, NOL, mop, hard	SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard	SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
swab, NOL, NOL, hard	SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
soak, NOL, NOL, hard	SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
brush-on, NOL, brush, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
fog, NOL, fogger, hard	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
mop, NOL, mop, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
rinse, NOL, NOL, hard	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 24
sponge-on, NOL, sponge, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
spray, NOL, sprayer, hard	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
wipe-on, NOL, cloth, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
premise treatment, NOL, NOL, hard	SC/S	110 W	110 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2-5); C 18; C 24
Site: Fish/Seafood Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD)										
rinse, NOL, NOL, hard	P/T SC/S G	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 23; C 24
spray, NOL, pressure sprayer, hard	G	97 W	97 W	NS	NS	NA	NA	NA	NA	A 08; C 23
brush-on, NOL, brush, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
fog, NOL, fogger, hard	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
mop, NOL, mop, porous	P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24

APPENDIX A - Case 0569 [Chlorinated Isocyanurates] Chemical 081405 [Trichloro-s-triazinetrione]

Application Type	Application Timing	Application Equipment	Surface Type	Form	Minimum Application Rate (ppm avail cl)	Maximum Application Rate (ppm avail cl)	Max. # Apps.	Max. # Apps. @ Max. Rate	Min. Interval Between Apps. @ Max. Rate (Days)	Restricted Entry Interval	Geographic Limitations		Use Pattern Limitations (also see Abbreviations)
											Allowed	Disallowed	
USES ELIGIBLE FOR REREGISTRATION													
Site: Fish/Seafood Processing Plant Premises (Nonfood Contact) (Use Group: INDOOR FOOD) *(Continued from previous page)*													
sponge-on, NOL, sponge, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
spray, NOL, sprayer, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
wipe-on, NOL, cloth, porous				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 10 (10); A 23 (7.2); A 24 (7.6); C 18; C 24
Site: Food Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23
mop, NOL, mop, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
soak, NOL, NOL, hard				SC/S	95 W	95 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
wipe-on, NOL, cloth, hard				SC/S	572 W	572 W	NS	NS	NA	NA	NA	NA	A 08; A 10 (2)
swab, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
soak, NOL, NOL, hard				SC/S	333 W	333 W	NS	NS	NA	NA	NA	NA	A 06; C 23
rinse, NOL, NOL, hard				P/T G SC/S	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 23; C 24
spray, NOL, pressure sprayer, hard				P/T G SC/S	97 W, NC	97 W, NC	NS	NS	NA	NA	NA	NA	A 08; C 23
circulate-in-place (CIP) treatment, NOL, NOL, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 06; A 08; A 23 (7.2); A 24 (7.6); A 25 (20); C 18; C 24
equipment treatment, NOL, pressure sprayer, hard				P/T SC/S	327 W	327 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 23 (7.2); A 24 (7.6); A 25 (2); C 18; C 24
fog, NOL, fogger, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
immersion, NOL, tank, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); A 25 (10); C 18; C 24
spray, NOL, sprayer, hard				P/T SC/S	NC	NC	NS	NS	NA	NA	NA	NA	A 08; A 23 (7.2); A 24 (7.6); C 18; C 24
Site: Dairies/Cheese Processing Plant Equipment (Food Contact) (Use Group: INDOOR FOOD)													
brush-on, NOL, brush, hard				SC/S	333 W	572 W	NS	NS	NA	NA	NA	NA	A 06; A 08; A 10 (2); C 23