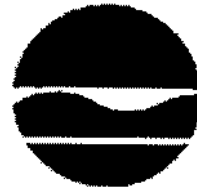


New York State Department of Environmental Conservation ASY, NO 11  
Division of Environmental Permits, Suite 206  
615 Erie Blvd. W., Syracuse, NY 13204-2400  
(315) 426-7438

97 DEC 19 PM 2:18

AIR PROGRAMS DIV.



John P. Cahill  
Commissioner

December 16, 1997

David Cuppett  
General Chemical Corporation  
PO Box 16  
Solvay, NY 13209-0016

RE: Final Air Permit for General Chemical Corp. - Syracuse Works, Appl. ID #7-3132-  
00009/00012

Dear Mr. Cuppett:

Enclosed please find the above referenced Air State Facility Permit. The permit does **NOT** have an expiration date.

Please read and adhere to all conditions: General and State Enforceable Conditions.

The permit must be kept on file at the affected facility.

If there are any questions, please contact me at the telephone number listed above.

Sincerely,

Joanne L. March  
Environmental Analyst I

cc: DAR - R7, R. Parker  
EPA - Region II, AQB  
G. & M. Sage  
J. Christensen

DEC PERMIT NUMBER  
7-3132-00009/00012

FACILITY/PROGRAM NUMBER(S)

EFFECTIVE DATE  
12/16/97

EXPIRATION DATE(S)  
Upon Decision of a Title V  
Application

**PERMIT**  
Under the Environmental  
Conservation Law (ECL)

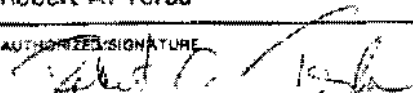
TYPE OF PERMIT (Check All Appropriate Boxes)

NEW     RENEWAL     MODIFICATION     PERMIT TO CONSTRUCT     PERMIT TO OPERATE

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> ARTICLE 15, TITLE 5:<br>PROTECTION OF WATER                 | <input type="checkbox"/> ARTICLE 17, TITLES 7, 8:<br>SPDES                          | <input type="checkbox"/> ARTICLE 27, TITLE 9; 6NYCRR 373:<br>HAZARDOUS WASTE MGMT.       |
| <input type="checkbox"/> ARTICLE 15, TITLE 15:<br>WATER SUPPLY                       | <input checked="" type="checkbox"/> ARTICLE 19:<br>AIR POLLUTION CONTROL            | <input type="checkbox"/> ARTICLE 34: COASTAL<br>EROSION MANAGEMENT                       |
| <input type="checkbox"/> ARTICLE 15, TITLE 16:<br>WATER TRANSPORT                    | <input type="checkbox"/> ARTICLE 23, TITLE 27:<br>MINED LAND RECLAMATION            | <input type="checkbox"/> ARTICLE 36:<br>FLOODPLAIN MANAGEMENT                            |
| <input type="checkbox"/> ARTICLE 15, TITLE 15:<br>LONG ISLAND WELLS                  | <input type="checkbox"/> ARTICLE 24:<br>FRESHWATER WETLANDS                         | <input type="checkbox"/> ARTICLES 1, 3, 17, 19, 27, 37;<br>6NYCRR 380: RADIATION CONTROL |
| <input type="checkbox"/> ARTICLE 15, TITLE 27: WILD,<br>SCENIC & RECREATIONAL RIVERS | <input type="checkbox"/> ARTICLE 25:<br>TIDAL WETLANDS                              | <input type="checkbox"/> ARTICLE 27, TITLE 3, 6NYCRR 364:<br>WASTE TRANSPORTER           |
| <input type="checkbox"/> 6NYCRR 608:<br>WATER QUALITY CERTIFICATION                  | <input type="checkbox"/> ARTICLE 27, TITLE 7: 6NYCRR 360:<br>SOLID WASTE MANAGEMENT | <input type="checkbox"/> OTHER:  |

PERMIT ISSUED TO <b>General Chemical Corporation</b>		TELEPHONE NUMBER <b>315-487-4029</b>	
ADDRESS OF PERMITTEE <b>PO Box 16, Solvay, NY 13209-0016</b>			
CONTACT PERSON FOR PERMITTED WORK <b>David Cuppett</b>		TELEPHONE NUMBER <b>Same</b>	
NAME AND ADDRESS OF PROJECT/FACILITY <b>General Chemical Corp. - Syracuse Works</b>			
LOCATION OF PROJECT/FACILITY <b>1421 Willis Ave., Solvay, NY</b>			
COUNTY <b>Onondaga</b>	VILLAGE <b>Solvay</b>	WATERCOURSE/WETLAND NO.	NYTM COORDINATES <b>E:401.6    N:4 758.3</b>
DESCRIPTION OF AUTHORIZED ACTIVITY:  <b>Two sodium nitrite process sources. (Emission Point #'s OSN1A &amp; OSN1B)</b>  <b>Modification: NOx RACT Compliance</b>			

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified (see page 2) and any Special Conditions included as part of this permit.

PERMIT ADMINISTRATOR: <b>Robert A. Torba</b>	ADDRESS <b>615 Erie Boulevard West, Syracuse, NY 13204</b>
AUTHORIZED SIGNATURE 	DATE <b>12/16/97</b>
Page 1 of 4	

## GENERAL CONDITIONS

### Inspections

1. The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3). A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

### Permit Changes and Renewals

2. The Department reserves the right to modify, suspend or revoke this permit when:
  - a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
  - b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
  - c) new material information is discovered; or
  - d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.
3. The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms, fees or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.
4. The permittee must submit a renewal application at least:
  - a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities (HWMF), major Air Pollution Control (APC) and Solid Waste Management Facilities (SWMF); and
  - b) 30 days before the expiration of all other permit types.
5. Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

### Other Legal Obligations of Permittee

6. The permittee has accepted expressly, by the execution of the application, the full legal responsibility for all damages, direct or indirect, of whatever nature and by whomever suffered, arising out of the project described in this permit and has agreed to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from this project.
7. The permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.
8. The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required for this project.

**Special Conditions**  
FOR ARTICLE 19, Air Pollution Control

**GENERAL CHEMICAL CORPORATION**

**Operating Permit**

1. NOx emissions (measured as NO2) from each emission point shall not exceed 172 lb/hr, based upon a one hour average.
2. Particulate emissions from each stack are limited to 0.050 grains/dscf, corrected to 6% oxygen.
3. Visible emissions from each stack shall not exceed 20% opacity (six minute average) .
4. Within 180 days of the effective date of this permit, General Chemical shall install, operate, certify and maintain a continuous emission monitoring system (CEMS) for determining and recording the hourly NOx mass emission rate from each stack. This CEMS shall comply with the following:
  - a. The CEMS shall be installed and certified in accordance with 40 CFR Part 60 Appendix B, and shall be maintained in accordance with 40 CFR Part 60 Appendix F.
  - b. General Chemical shall submit to NYSDEC Region 7 Division of Air Resources (DAR), for approval a CEMS preliminary monitoring plan in accordance with NYSDEC Air Guide 34. This plan shall bDe submitted at least 60 days prior to installation of the CEMS at the facility.
  - c. General Chemical shall submit to NYSDEC Region 7 DAR for approval a CEMS certification test protocol in accordance with NYSDEC Air Guide 34. This test protocol shall be submitted at least 30 days prior to performing the CEMS certification testing.
  - d. General Chemical shall notify NYSDEC Region 7 DAR of the dates for conducting the CEMS certification testing at least 15 days prior to such dates.
  - e. General Chemical shall submit to NYSDEC DAR for approval a CEMS certification test report to NYSDEC within 30 days of completion of such tests.
  - f. General Chemical shall maintain a file of all CEMS measurements including the hourly NOx emission rates, and the results of all calibration checks performed on the system.

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**Special Conditions**  
FOR ARTICLE 19, Air Pollution Control

**GENERAL CHEMICAL CORPORATION**

**Operating Permit**

5. General Chemical shall submit a CEMS quarterly report in accordance with NYSDEC Air Guide 34 to NYSDEC Region 7 DAR within 30 calendar days of the end of each calendar year quarter. At a minimum the quarterly report shall identify each excess emission period, each invalid compliance period due to CEMS downtime, and the results of the CEMS quarterly audit.
6. All records required by these special conditions must be maintained at the facility for three years after being recorded, and must be made available to NYSDEC upon request.
7. Periodic BACT Review. General Chemical shall submit to NYSDEC Region 7 for approval a periodic BACT assessment of available control technologies for reducing NOx emissions from the facility. These assessments shall be submitted to NYSDEC once every five years, with the first assessment due at the time of first renewal of the Title V permit for the facility. At a minimum the BACT assessment shall evaluate all available NOx control technologies identified by General Chemical and NYSDEC for technical feasibility. For those options deemed technically feasible, the facility shall determine the cost effectiveness (cost/ton NOx removed) for each option in accordance with procedures acceptable to the Department.

DEC PERMIT NUMBER  
7-3132-00009/00012

General Chemical Corp

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