

MATERIAL SAFETY DATA SHEET

JUN 05 2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NUMBER : M19018

ISSUE DATE : 10-05-95

PRODUCT NAME : OXY 575
PVC HOMOPOLYMER RESIN

Manufacturer's Name and Address : Occidental Chemical Corporation, Occidental Tower
5005 LBJ Freeway, P.O. Box 809050
Dallas, TX 75380 (214) 404-3800

24 HOUR EMERGENCY TELEPHONE : 1-800-733-3665 OR 214-404-3228

TO REQUEST AN MSDS : 1-800-699-4970

CUSTOMER SERVICE : 1-800-231-0469

PRODUCT USE : Vinyl Fabrication

CHEMICAL NAME : Ethene, Chloro- Homopolymer

CHEMICAL FORMULA : (C2H3Cl)n

SYNONYMS/COMMON NAMES : Polyvinyl Chloride

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER / NAME
9002-86-2 Ethene, chloro-, homopolymer

EXPOSURE LIMITS
PEL:Not Established
TLV:Not Established

PERCENTAGE
VOL ND
WT 99.90

COMMON NAMES:
POLYVINYL CHLORIDE

Listed On(List Legend Below):
00 19 22 23

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

75-01-4 Ethene, chloro-

EXPOSURE LIMITS

PEL: See 1910.1017
TLV: 5 ppm; 13 mg/m³; TWA, A1

PERCENTAGE

VOL ND
WT 0-0.015

COMMON NAMES:

MONOCHLOROETHYLENE
VINYL CHLORIDE#
VINYL CHLORIDE MONOMER

Listed On (List Legend Below):

00 02 06 08 11 15 18 21 22 45

Chemical name used in the SARA Section 313 List of Toxic Chemicals
(40 CFR - Section 372.65) if different from CAS name.

LIST LEGEND

00 TSCA INVENTORY	02 SARA TOXIC CHEM, SECTION 313
06 NTP "KNOWN HUMAN CARCINOGEN"	08 IARC HUMAN CARCINOGEN, GROUP 1
11 CA PROP 65 - CARCINOGEN	15 PA SPECIAL & ENV HAZ SUBSTANCE
18 NY HAZARDOUS SUBSTANCES	19 PA REQUIREMENT- 3% OR GREATER
21 NJ SPECIAL HEALTH HAZ SUB	22 CANADIAN DOMESTIC SUB LIST
23 NJ REQUIREMENT- 1% OR GREATER	45 EPA/OSHA ACCIDENTAL RELEASE

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
*
* DUST OR VAPORS MAY BE IRRITATING TO SKIN, EYES AND RESPIRATORY *
* TRACT. DUST MAY REDUCE LUNG FUNCTION. CONTAINS VINYL CHLORIDE. *
* VINYL CHLORIDE IS A CANCER-SUSPECT AGENT. *
*
* White powder or granules *

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY:

Inhalation, Eyes, Skin, Ingestion.

TARGET ORGANS:

Lungs.

IRRITANCY:

Fumes produced in processing may irritate the eyes and respiratory tract.

SENSITIZING CAPABILITY:

None known.

3. HAZARDS IDENTIFICATION (Continued)

REPRODUCTIVE EFFECTS:

None known.

CANCER INFORMATION:

Contains a listed carcinogen. See Sections 2 & 11.

SHORT-TERM EXPOSURE (ACUTE)

INHALATION:

Vapors or mists can be irritating, which may lead to difficulty in breathing.

May be irritating.

EYES:

May be irritating.

SKIN:

May be irritating.

INGESTION:

Not a likely route of exposure.

REPEATED EXPOSURE (CHRONIC)

There are no known chronic effects from exposure to polyvinyl chloride. Processing may result in airborne dust.

SYNERGISTIC MATERIALS:

None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known.

4. FIRST AID MEASURES

EYES:

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

SKIN:

Wash thoroughly with soap and water after handling.

4. FIRST AID MEASURES (Continued)

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

No effect expected. If large amounts are ingested, GET MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

No specialized procedures. Treat for clinical symptoms.

5. FIRE FIGHTING MEASURES

Flash Point: 391°C (735°F)

Method: Not available

Autoignition Temperature: 454°C (849°F)

FLAMMABLE LIMITS IN AIR, BY % VOLUME

Upper: Not Available
Lower: Not Available

EXTINGUISHING MEDIA:

Use agents appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES:

Keep unauthorized personnel removed and upwind. Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

FIRE AND EXPLOSION HAZARD:

This product is nonflammable and nonexplosive under normal conditions of use. At high temperatures this product can decompose to give off hydrochloric acid and gas.

SENSITIVITY TO MECHANICAL IMPACT:

Not applicable.

SENSITIVITY TO STATIC DISCHARGE:

Electrostatic charge may build up during handling. Grounding of equipment is recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Evacuate unnecessary personnel and eliminate all sources of ignition.

ENVIRONMENTAL PRECAUTIONS:

Contain spill with dike to prevent entry into sewers or waterways.

METHODS FOR CLEANING UP:

Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.

7. HANDLING AND STORAGE

HANDLING:

Use good housekeeping practices. Contain material and prevent accumulations of dust.

Use with adequate ventilation.

SPECIAL MIXING AND HANDLING INSTRUCTIONS:

Not applicable.

STORAGE:

Store in a cool, dry, ventilated area away from heat, sparks and flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits.

PERSONAL PROTECTION

RESPIRATORY:

Wear a NIOSH/MSHA approved respirator following manufacturer's recommendations, where airborne contaminants may occur.

EYE/FACE:

Wear safety glasses with side shields (ANSI Z87.1).

SKIN:

Wear protective gloves such as leather, canvas or cotton to minimize skin contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

OTHER:

Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White powder or granules

Odor Threshold: Not available

Specific Gravity (Water=1): 1.4

Vapor Pressure: Not Available

Vapor Density (Air=1): Not Available

Density: Not available

Evaporation Rate: Not available

% Volatiles by Wt: Not available

Boiling Point: Not Available

Freezing Point: Not Determined

Melting Point: Not available

Solubility in Water (% by wt.): Negligible

pH: Not Available

Octanol/Water Partition Coefficient: Not available

Thermal Decomposition Temperature: Not available

Other: Not available

VOC (% by wt.): Not applicable

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

STABLE UNSTABLE

REACTS WITH:

<input type="checkbox"/> AIR	<input type="checkbox"/> OXIDIZERS	<input type="checkbox"/> METALS
<input type="checkbox"/> WATER	<input type="checkbox"/> ACIDS	<input type="checkbox"/> OTHER
<input type="checkbox"/> HEAT	<input type="checkbox"/> ALKALIS	<input checked="" type="checkbox"/> NONE

10. STABILITY AND REACTIVITY (Continued)

HAZARDOUS POLYMERIZATION:

_____ OCCURS X WILL NOT OCCUR

COMMENTS:

Avoid heat, sparks and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

PVC resin processing may result in the release of very low levels of vinyl chloride. The air concentration will be dictated by processing conditions, room ventilation and production rates.

Hydrogen chloride.

Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

75-01-4 Ethene, chloro-

ACUTE ORAL LD50 : (rat) 500 mg/kg

ACUTE INHALATION LC50 : (rat) 150,000 mg/kg

Vinyl chloride has been demonstrated to be mutagenic in cultured cell tests, insects, and laboratory animals. It is also listed as a human carcinogen by OSHA, IARC (Group 1) and NTP. Long term exposure to vinyl chloride has caused liver and other cancers in animals and humans. At high concentrations vinyl chloride can cause central nervous depression, affect heart rhythms, and cause liver and kidney damage. Prolonged and repeated exposure may result in changes in the blood system and loss of bone from finger tips.

9002-86-2 Ethene, chloro-, homopolymer

Rats and guinea pigs exposed continuously to PVC dust for 24 hours/day for periods varying from 2-7 months were found to have extensive lung damage. In rats, inhalation of fumes from heated PVC produced interstitial edema as well as focal bronchial and intraalveolar hemorrhage.

No data is available on the metabolism, reproductive effects and mutagenicity of PVC. Processing of this material may result in very low concentrations of unpolymerized vinyl chloride.

12. ECOLOGICAL INFORMATION

No Ecological Data Available.

13. DISPOSAL CONSIDERATIONS

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

14. TRANSPORT INFORMATION

DOT INFORMATION: Not Regulated

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. See Section 2, List Legend 02.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III Hazard Categories for this product are indicated below. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40.CFR.370. Please consult those regulations for details.

TSCA:

All components of this product that are required to be on the TSCA inventory are listed on the inventory.

SARA/TITLE III HAZARD CATEGORIES:

Immediate (Acute) Health:	<u>NO</u>	Reactive Hazard	<u>NO</u>
Delayed (Chronic) Health:	<u>NO</u>	Sudden Release of Pressure	<u>NO</u>
Fire Hazard:	<u>NO</u>		

HMIS HAZARD RATINGS:

HEALTH HAZARD: 1 FIRE HAZARD: 1 REACTIVITY: 0

STATE REGULATIONS:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product contains a chemical known to the State of California to cause cancer.

See Section 2. COMPOSITION/INFORMATION ON INGREDIENTS list legend for applicable state regulation.

15. REGULATORY INFORMATION (Continued)

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

CANADA:

WHMIS Hazard Class: Not Rated

16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone (716) 286-3042 or write to:

Occidental Chemical Corporation
Product Stewardship Department
360 Rainbow Boulevard South
P.O. Box 728
Niagara Falls, New York 14302-0728

MSDS LEGEND:

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstracts Service Registry Number

CEILING = Ceiling Limit (15 Minutes)

CEL = Corporate Exposure Limit

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit (OSHA)

STEL = Short Term Exposure Limit (15 Minutes)

TDG = Transportation of Dangerous Goods (Canada)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average (8 Hours)

WHMIS = Worker Hazardous Materials Information System (Canada)

* = See Section 3 Hazards Identification - Repeated Exposure (Chronic) Information

16. OTHER INFORMATION (Continued)

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, OR OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.

17. WARNING LABEL INFORMATION

SIGNAL WORD:

CAUTION

HAZARD WARNINGS:

DUST OR VAPORS MAY BE IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT.
DUST MAY REDUCE LUNG FUNCTION.

CONTAINS VINYL CHLORIDE. VINYL CHLORIDE IS A CANCER-SUSPECT AGENT.

PRECAUTIONS:

Avoid breathing dust, vapors or mist.

Avoid generation of dust.

Keep away from heat, sparks, pilot lights, welding operations and open flame.

FIRST AID

EYES:

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

SKIN:

Wash thoroughly with soap and water after handling.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

17. WARNING LABEL INFORMATION (Continued)

INGESTION:

No effect expected. If large amounts are ingested, GET MEDICAL ATTENTION.

IN CASE OF SPILL OR LEAK:

Sweep or vacuum spills and place in containers for recovery or disposal.

FIRE:

Use carbon dioxide, dry chemical, water or other agent suitable for surrounding fire. Decomposition in an open flame may yield hydrogen chloride gas.

HANDLING AND STORAGE:

Store in a clean, dry, well ventilated area away from heat.

DISPOSAL:

Dispose of in accordance with federal, state and local regulations.

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This Product Contains:

CAS#	NAME
9002-86-2	Ethene, chloro-, homopolymer
75-01-4	Ethene, chloro-

HMIS RATING: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

LABEL NUMBER: 1095M19018

For Industrial Use Only