

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS NUMBER : M19058 **ISSUE DATE :** 01-01-98

PRODUCT NAME : OXY 80HC
 PVC DISPERSION HOMOPOLYMER RESIN

Manufacturer's Name and Address : Occidental Chemical Corporation, Occidental Tower
 5005 LBJ Freeway, P.O. Box 809050
 Dallas, TX 75380 (972) 404-3800

24 HOUR EMERGENCY TELEPHONE : 1-800-733-3665 OR 972-404-3228

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	PERCENTAGE
PEL:Not Established	VOL ND
TLV:Not Established	WT 97-98

COMMON NAMES:
 POLYVINYL CHLORIDE

Listed On (List Legend Below) :
 00 19 22 23 50

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

TRADE SECRET
NJEIN16589300000-5004P

EXPOSURE LIMITS	PERCENTAGE
PEL:Not Established	VOL ND
TLV:Not Established	WT 1-1.50

Listed On(List Legend Below):
00 22 23 50 51

TRADE SECRET
NJEIN16589300000-5003P

EXPOSURE LIMITS	PERCENTAGE
PEL:Not Established	VOL ND
TLV:Not Established	WT 1-1.50

Listed On(List Legend Below):
00 22 23 50 51

LIST LEGEND

00 TSCA INVENTORY	19 PA REQUIREMENT- 3% OR GREATER
22 CANADIAN DOMESTIC SUB LIST	23 NJ REQUIREMENT- 1% OR GREATER
50 PHILIPPINES INVENTORY (PICCS)	51 EINECS

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

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

Revised

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, have a trained person administer artificial respiration. 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 (g/l. by wt.): Not applicable

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

 X STABLE UNSTABLE

REACTS WITH:

<u> </u> AIR	<u> </u> OXIDIZERS	<u> </u> METALS
<u> </u> WATER	<u> </u> ACIDS	<u> </u> OTHER
<u> </u> HEAT	<u> </u> ALKALIS	<u> X </u> 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

TRADE SECRET

ACUTE ORAL LD50 : (rat) 12 g/kg

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:

The exact composition of this material is a Trade Secret. In case of a medical emergency, the specific chemical identity will be provided to the treating physician or nurse for proper emergency and first aid treatment. A written statement of confidentiality agreement will be required as soon as circumstances permit as provided by 29 CFR 1910.1200.

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:

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

The following components in this product are used interchangeably:

(NJEIN16589300000 5000P or NJEIN16589300000 5001P);
(NJEIN16589300000 5052P or NJEIN16589300000 5053P or
NJEIN16589300000 5054P);
(NJEIN16589300000 5015P or NJEIN16589300000 5016P);
(NJEIN16589300000 5021P or NJEIN16589300000 5022P or
NJEIN16589300000 5023P)

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.

INTERNATIONAL REGULATIONS:

Consult the regulations of the importing country.

15. REGULATORY INFORMATION (Continued)

CANADA:

WHMIS Hazard Class: Not Rated

16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone (972) 404-2405 or write to:

Occidental Chemical Corporation
Product Stewardship Department
5005 LBJ Freeway
P.O. Box 809050
Dallas, Texas 75380

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

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Revised

17. WARNING LABEL INFORMATION

SIGNAL WORD:

CAUTION

HAZARD WARNINGS:

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

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

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, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

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.

17. WARNING LABEL INFORMATION (Continued)

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
TRADE SECRET	NJEIN16589300000-5004P
TRADE SECRET	NJEIN16589300000-5003P

The following components in this product are used interchangeably:

(NJEIN16589300000 5000P or NJEIN16589300000 5001P);
(NJEIN16589300000 5052P or NJEIN16589300000 5053P or
NJEIN16589300000 5054P);
(NJEIN16589300000 5015P or NJEIN16589300000 5016P);
(NJEIN16589300000 5021P or NJEIN16589300000 5022P or
NJEIN16589300000 5023P)

HMIS RATING: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

LABEL NUMBER: 0198M19058

For Industrial Use Only