

***Indicated additional chronic health hazards. Refer to Section 11.**

LIST LEGEND

00 TSCA INVENTORY	02 SARA TOXIC CHEM, SECTION 313
13 PA ENVIROMENTAL HAZ SUBSTANCE	16 NJ WORKPLACE HAZ SUBSTANCE LST
17 CA PROP 65 - REPRO TOXICITY	18 NY HAZARDOUS SUBSTANCES
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

EFFECTS OF A SINGLE OVEREXPOSURE:

Swallowing: May cause abdominal discomfort, nausea, vomiting, and diarrhea.

Skin absorption: No evidence of harmful effects from available information.

Inhalation: Short-term harmful health effects are not expected from vapor generated at ambient temperature. See "Effects of Repeated Overexposure."

Skin Contact: Brief contact may cause slight irritation with itching and local redness. Eye contact excess redness and swelling of the conjunctive may occur. Causes irritation, experienced as stinging and discomfort or pain.

EFFECTS OF REPEATED OVEREXPOSURE:

Prolonged or repeated overexposure to mist or vapor generated at high temperatures may result in the inhalation of harmful amounts of material.

CHRONIC EFFECTS:

Target Organs: Kidneys, Liver

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests overexposure to unlikely aggravate existing medical conditions.

OTHER EFFECTS ON OVEREXPOSURE

Skin contact may cause sensitization and an allergic skin reaction in a small proportion of individuals.

4. FIRST AID MEASURES

SWALLOWING: If patient is fully conscious, give two glasses of water, induce vomiting. This should be done only by medical or experienced first-aid personnel. Obtain medical attention.

INHALATION: Remove to fresh air.

SKIN CONTACT: Wash skin with soap and water.

EYE CONTACT: Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention if discomfort persists.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at that present symptoms and clinical condition of the patient.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical media for small fires. Extinguish fires with water spray or apply alcohol - type or all-purpose foam by manufacturer's recommended techniques. For large fires use water spray or foam

EXTINGUISHING MEDIA TO BE AVOIDED: No information currently available.

SPECIAL FIRE FIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity. Cool containers not involved in the fire with water spray.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARD: When this material is exposed to extreme heat, as in a fire, it may polymerize and rupture a closed container.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

METHODS FOR CLEANING UP: Absorb spillage with non-combustible absorbent materials. Pick up, keep in closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

HANDLING: General handling precautions. Avoid contact with eyes, skin and clothing. Do not handle or empty container in presence of flammable vapors. Use with adequate ventilation. Wash thoroughly after handling.

General (mechanical) room ventilation is expected to be satisfactory for use at room temperature. Special, local ventilation is recommended at points where vapors generated at high temperatures may be vented to the workplace air.

WARNING: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published "auto ignition" or "ignition" temperatures values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated - temperature

processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled "Ignition Hazards of Organic Chemical Vapors".

STORAGE: Keep container closed, keep away from direct sun light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: No exposure limits have been established.

PERSONAL PROTECTION

Hand: Protective gloves - PVC coated

Eye: Safety glasses, goggles or faceshield

Respiratory: Under normal conditions at ambient temperature respiratory protection is not normally required. In applications of use at elevated temperatures, where vapors and mist are present or in poorly ventilated areas a respiratory protection program meeting the requirements of OSHA 29CFR 1910.134 must be implemented.

Other Protective Equipment: Eye wash and safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Odorless, colorless, liquid

Flash Point: 245° F

Boiling Point: > 250° C at 1 atmosphere

Specific Gravity (Water=1): 1.173

Refractive Index: 1.498

Insoluble in Water: >0.1 %

Vapor Density (Air=1): 9

Freezing Point: Sets to glass at -37°C

Molecular Weight: 252 g/mol

10. STABILITY AND REACTIVITY

STABILITY:

Incompatible Materials: Amines, Acids, Strong Bases, Hazardous combustion products

Combustion may produce the following products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

POLYMERIZATION: May occur. Conditions to avoid: Elevated Temperatures, Amines, Acids, or Strong Bases

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SENSITIZATION

Skin: May cause allergic skin reaction

TARGET ORGAN(S) OR SYSTEM(S)

Kidneys, Liver and Respiratory system

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

ORAL

Rat 4490 mg/kg
LD50

SKIN

Rabbit 20 ML/KG
LD50

12. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD(S)

Dispose in accordance with all applicable federal, state and local regulations. Empty containers should be recycled or disposed of through an approved waste management facility.
This product is essentially insoluble in water. It is resistant to rapid biodegradation. Avoid discharge to sewers or to natural waters.

14. TRANSPORT INFORMATION

DOT INFORMATION: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA INFORMATION: Non-Hazardous for Air Transport

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

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.

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi

Indication of Danger: Irritant

R:43

Risk Statements: **May cause sensitization by skin contact**

S: 36/37

Safety Statements: Wear suitable protective clothing and gloves

TSCA:

This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

TSCA 12(b) COMPONENTS:

Listed 2386-87-0

SARA/TITLE III HAZARD CATEGORIES:

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

HMIS HAZARD RATINGS:

HEALTH HAZARD: 3* FIRE HAZARD: 1 REACTIVITY: 1

STATE REGULATIONS:

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

16. OTHER INFORMATION

For additional non-emergency health, safety or environmental information telephone 1-866-800-CHEM (2436) or write to:

Customer Service Department
Gabriel Performance Products
725 State Road
Ashtabula, Ohio 44004

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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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:

WARNING

HAZARD WARNINGS (on label for product):

Indication of Danger: Irritant

Risk Statements: May cause sensitization by skin contact.

Safety Statements: Wear Suitable protective clothing and gloves

US Statement: Target Organ(s): Kidneys, Liver

HANDLING: General handling precautions. Avoid contact with eyes, skin and clothing. Do not handle or empty container in presence of flammable vapors. Use with adequate ventilation. Wash thoroughly after handling.

FIRST AID:

SWALLOWING: If patient is fully conscious, give two glasses of water, induce vomiting. This should be done only by medical or experienced first-aid personnel. Obtain medical attention.

INHALATION: Remove to fresh air.

SKIN CONTACT: Wash skin with soap and water.

EYE CONTACT: Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention if discomfort persists.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at symptoms that present and the clinical condition of the patient.

IN CASE OF SPILL OR LEAK:

PERSONAL PRECAUTIONS: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

METHODS FOR CLEANING UP: Cover with non-combustible absorbent materials. Pick up, keep in closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete

INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:

This Product Contains:

CAS#	NAME
2386-87-0	3,4 - epoxycyclohexane methyl 3' 4' - epoxycyclohexyl - carboxylate

Contains no photochemically reactive material in accordance with Rule 443 of the South Coast Air Quality Management District.

24 HOUR EMERGENCY TELEPHONE : CHEMTREC 1-800-424-9300
OUTSIDE U.S. 1-703-527-3887 (COLLECT)

HMIS RATING: HEALTH 3* FLAMMABILITY 1 REACTIVITY 1

For Industrial Use Only

The MSDS was reviewed and updated as of 9/30/2010