



Material Safety Data Sheet

1. IDENTIFICATION

PRODUCT NAME: H2-329I-C
CHEMICAL NAME/SYNONYMS:
CHEMICAL FAMILY: Coagulant Polymer
CHEMICAL FORMULA:
For emergencies call Chemtrec at 1-800-424-9300

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

SIGNAL WORD: CAUTION!
COLOUR: yellow
APPEARANCE: liquid
STATE OF MATTER: liquid
ODOUR: amine-like
HEALTH: May cause eye, skin or respiratory irritation.
PHYSICAL/CHEMICAL HAZARDS: None Expected

POTENTIAL HEALTH EFFECTS

Primary routes of entry: Skin, Eyes, Inhalation, Ingestion

HMIS III rating

Health: 1 **Flammability: 0** **Physical hazard: 0** **Personal protection: X**

HMIS Note: Indicates possible chronic health effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS #</u>	<u>COMPONENT</u>	<u>PERCENT</u>	<u>HAZARD</u>
42751-79-1	1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine	49.0 - 51.0 %	Y

This material is classified as hazardous under OSHA regulations.

4. FIRST-AID MEASURES

INHALATION: Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

SKIN: After contact with skin, wash immediately with plenty of water and soap. If clothing is contaminated, remove and launder before reuse. Seek medical attention.

EYES: Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get immediate medical attention if irritation persists.

INGESTION: Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: carbon dioxide, dry powder, foam, water spray

UNSUITABLE EXTINGUISHING MEDIA: If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

HAZARDOUS COMBUSTION PRODUCTS: Carbon and nitrogen oxides.

HAZARDS DURING FIRE-FIGHTING:

Standard procedure for chemical fires.

Cool fire-exposed containers with water.

Restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING: Wear self-contained breathing apparatus and chemical-protective clothing.

NFPA CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0 SPECIAL HAZARD: CORROSIVE

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: May be harmful to the aquatic environment. Prevent entry into drains and surface waters.

CLEANUP: Pick up with inert absorbent material (e.g. sand, earth etc.). Scoop into marked containers for disposal as chemical waste. Wear suitable protective equipment. Should not be released into the environment.

7. HANDLING AND STORAGE**HANDLING**

General advice: As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact.

Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

STORAGE

General advice: Keep container tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Sensitive to cold below O.C (32.F).

Temperature tolerance: FROST SENSITIVE PRODUCT

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well ventilated areas. Do not breathe vapors or mist.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use NIOSH approved respirator as needed to mitigate exposure.

EYE PROTECTION: Tightly fitting safety goggles (splash goggles) (EN 166)

BODY PROTECTION: Wear chemical resistant gloves and protective clothing.

GENERAL SAFETY AND HYGIENE MEASURES: There are no OSHA or ACGIH exposure guidelines available for component(s) in this product. Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOUR: yellow
FORM: liquid
STATE OF MATTER: liquid
ODOUR: amine-like
PH VALUE: approx.6
EVAPORATION RATE: Not tested
FLASH POINT: > 100°C
SELF-IGNITION TEMPERATURE: Not tested
MELTING POINT: < 0°C
BOILING POINT: > 100°C
VAPOUR PRESSURE: Not tested
DENSITY: approx. 1.2 g/cm³
VAPOUR DENSITY: Not tested
PARTITIONING COEFFICIENT NOCTANOL/WATER (LOG POW): Not tested
VISCOSITY, DYNAMIC: Not tested
% VOLATILES: Not tested
SOLUBILITY IN WATER: miscible
SOLUBILITY IN OTHER SOLVENTS: Not tested

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None known
SUBSTANCES TO AVOID: Strong oxidizing agents.
POSSIBILITY OF HAZARDOUS REACTIONS: No hazardous reactions known.
HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition expected under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: Not determined.
ACUTE INHALATION TOXICITY: not determined
ACUTE DERMAL TOXICITY: not determined
SKIN IRRITATION: not determined
EYE IRRITATION: not determined
SKIN SENSITIZATION: not determined
SUBACUTE TOXICITY: not determined
CHRONIC TOXICITY: not determined
SUBCHRONIC TOXICITY: not determined
GENETIC TOXICITY: Not determined.
CARCINOGENICITY: None of the components in this product at concentrations greater than 0.1 % are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.
REPRODUCTIVE TOXICITY: not determined
DEVELOPMENTAL TOXICITY/TERATOGENICITY: not determined
NEUROTOXICITY: not determined

12. ECOLOGICAL INFORMATION

TOXICITY TO FISH: 96 h/LC50: > 10 mg/l
By analogy with a product of similar composition
TOXICITY TO AQUATIC INVERTEBRATES: 48 h/EC50: > 10 mg/l
By analogy with a product of similar composition
TOXICITY TO AQUATIC PLANTS: Not tested
TOXICITY TO MICROORGANISMS: Not tested
BIODEGRADATION: Not tested

MSDS

H2-329I-C

OTHER ECOTOXICOLOGICAL ADVICE: This product contains polymer(s) that may be toxic to aquatic organisms when tested in pure (distilled) water.
Toxicity is greatly reduced by particles in natural water.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL OF SUBSTANCE: Dispose of in accordance with national, state and local regulations.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

14. TRANSPORT INFORMATION

This material is not regulated as a DOT Hazardous Material.

15. REGULATORY INFORMATION

Canada: Domestic Substances List (DSL): All components either exempt or listed on the DSL

US: Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory

United States - Regulations

SARA Section 311/312 Hazard Communication Standard:

Acute Health: Y Fire: N
Chronic Health: N Reactivity: N
Sudden release of pressure: N

SARA Section 313 Toxic Chemical List: This product does not contain any components reportable under Sec 313 (40 CFR 372).

OSHA hazard category: This material is classified as hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR).

Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

Toxic Substances Control Act (TSCA) Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification: No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP): Chemical name 1-Chloro-2,3-epoxypropane

Clean Air Act 602 - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15).

Pennsylvania Right to Know:

Chemical name	CAS Number	Notification
1-Chloro-2,3-epoxypropane	106-89-8	Special hazard.
1-Chloro-2,3-epoxypropane	106-89-8	Environmental hazard.
1-Chloro-2,3-epoxypropane	106-89-8	Listed
1,3-Dichloro-2-propanol	96-23-1	Listed
1-Propanol,2,3-dichloro-	616-23-9	Listed
Oxiranemethanol (9CI)	556-52-5	Environmental hazard.
Oxiranemethanol (9CI)	556-52-5	Listed

This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

California Proposition 65 - Chemicals Known to the State to Cause Cancer:

Chemical name	CAS Number	Notification
1-Chloro-2,3-epoxypropane	106-89-8	Carcinogenic.
Oxiranemethanol (9CI)	556-52-5	Carcinogenic.

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

California Proposition 65 - Chemicals Known to the State to Cause Reproductive Toxicity:

Chemical name	CAS Number	Notification
1-Chloro-2,3-epoxypropane	106-89-8	Male reproductive toxin.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

International Regulations

Chemical Weapons Convention:

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

16. OTHER INFORMATION

Do not use ingredient information and/ or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from H2O Technical Services.

DISCLAIMER:

We believe that the information in this MSDS is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily either all-inclusive or fully adequate in every circumstance. Also, these suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

