



Material Safety Data Sheet

1. IDENTIFICATION

PRODUCT NAME: H2-12B-C

CHEMICAL NAME: Cationic Polymer

For emergencies call Chemtrec at 1-800-424-9300

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: This product is irritating to the eyes, respiratory system and skin.

POTENTIAL HEALTH EFFECTS:

EYES: Can cause eye irritation.

SKIN: Can cause skin irritation.

INGESTION: May be harmful if swallowed. Seek medical attention. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

INHALATION: Respiratory irritant, avoid prolonged inhalation of heated vapors.

HMIS CODES: HEALTH: 1 FIRE: 1 REACTIVITY: 0 PERS. PROT.:

HMIS RATINGS NOTES:

This information is for people trained in the National Paint & Coatings Association's (NPCA) Hazardous Materials Identification System (HMIS).

KEY

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

* = Chronic Hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS #</u>	<u>COMPONENT</u>	<u>PERCENT</u>
69418-26-4	Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	20-45
64742-47-8	Petroleum distillates, hydrotreated light	20-30
68213-23-0	Alcohols, C 12-18, ethoxylated	1-3
68551-12-2	Alcohols, C12-16, ethoxylated	1-3

Component Information/Information on Non-Hazardous Components

OSHA classifies this product as an eye, skin and respiratory irritant under 29 CFR 1910.1200. All components are listed under 40 CFR 700 (TSCA).

4. FIRST-AID MEASURES

EYES Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention.

SKIN: Flush thoroughly with water.

INGESTION: If ingestion of a large amount does occur, seek medical attention.

INHALATION: Inhalation of mists into lungs may cause pulmonary disorder. Move victim to fresh air. Consult physician regarding any continued discomfort.

5. FIRE-FIGHTING MEASURES

GENERAL FIRE HAZARDS: Petroleum hydrocarbon component, if separated from product, is combustible.

UPPER FLAMMABLE LIMIT (UFL): Not determined

LOWER FLAMMABLE LIMIT (LFL): Not determined

METHOD USED: COC

FLASH POINT: >212°F

FLAMMABILITY CLASSIFICATION:

AUTO IGNITION: Not determined

HAZARDOUS COMBUSTION PRODUCTS: On thermal decomposition oxides of carbon and nitrogen.

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide, water fog.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS: Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

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

6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES: Absorb spill with inert material. Shovel material into appropriate container for disposal.

CLEAN-UP PROCEDURES: None specified.

EVACUATION PROCEDURES: None.

SPECIAL PROCEDURES: Remove spills promptly as they may make floors slippery. Several washes and/or the use of detergents may be necessary to completely clean any spill.

7. HANDLING AND STORAGE

HANDLING: Handle as an irritant.

STORAGE: Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

A: GENERAL PRODUCT INFORMATION

Petroleum distillates, hydrotreated light (64742-47-8)

ACGIH: 200 mg/m³ TWA (application restricted to conditions in which there are negligible aerosol exposures)

B: COMPONENT EXPOSURE LIMITS: No information is available.

ENGINEERING CONTROLS: Provide adequate ventilation to minimize worker exposure.

PERSONAL PROTECTIVE EQUIPMENT

PERSONAL PROTECTIVE EQUIPMENT: EYES/FACE: Safety glasses or goggles.

PERSONAL PROTECTIVE EQUIPMENT: SKIN: Skin contact should be minimized. Impervious gloves (rubber or neoprene) are recommended.

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY: Not required under normal operating conditions.

PERSONAL PROTECTIVE EQUIPMENT: GENERAL: Avoid prolonged inhalation of heated vapors.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White viscous liquid
PHYSICAL STATE: liquid
VAPOR PRESSURE: No data
BOILING POINT/BOILING RANGE: No data
SOLUBILITY: soluble in water
EVAPORATION RATE: < 1 (n-Butyl Acetate)
ODOR: Mild Hydrocarbon odor
PH: No data
VAPOR DENSITY: No data
MELTING POINT: ~5°F
SPECIFIC GRAVITY: ~1
FLASH POINT: (>)212 °F

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product is stable under usual application conditions.
CONDITIONS TO AVOID: none
INCOMPATIBILITY: none
HAZARDOUS DECOMPOSITION PRODUCTS: none
HAZARDOUS REACTIONS: Product will not undergo hazardous polymerization.
THERMAL DECOMPOSITION: No data

11. TOXICOLOGICAL INFORMATION**Acute and Chronic Toxicity****A: General Product Information**

Eye and skin irritant. May aggravate existing medical conditions such as rashes, allergies or other sensitive areas. Symptoms may include reddening, swelling of affected areas with possible itching, burning or other discomfort.

B: Acute Toxicity-LD50/LC50

Petroleum distillates, hydrotreated light 64742-47-8

LD50: Inhalation LC50 Rat: >5.2 mg/L/4H; Oral LD50 Rat: >5000 mg/kg;
DermalLD50 Rabbit: >2000 mg/kg

Carcinogenicity**A: General Product Information**

NTP: No

IARC: No

OSHA: No

B: Component Carcinogenicity

No information is available.

12. ECOLOGICAL INFORMATION**Ecotoxicity****A: General Product Information**

Aquatic LC50:

(*Ceriodaphnia Dubia*: 48 hrs): 1.75 ppm

(*Pimephales promelas*: 48 hrs): 11.0 ppm

B: Component Analysis - Ecotoxicity ▀ Aquatic Toxicity

Petroleum distillates, hydrotreated light (64742-47-8)

96 Hr LC50 *Pimephales promelas*: 45 mg/L [flow-through]; 96 Hr LC50 *Lepomis macrochirus*: 1740 mg/L [static]

Environmental Fate

Biological Oxygen Demand (BOD): 383,000 mg/l
 Chemical Oxygen Demand (COD): 1,930,000 mg/l

13. DISPOSAL CONSIDERATIONS**US EPA WASTE NUMBER AND DESCRIPTIONS**

A: General Product Information: Incinerate or dispose of unadulterated product as a non-hazardous waste. Solidify and landfill according to local, state, and federal regulations.

B: Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

DISPOSAL INSTRUCTIONS: Contain and collect using absorbent material if needed. Flush residuals to drain for normal biological treatment. Place collected material into suitable containers for proper disposal.

14. TRANSPORT INFORMATION

THIS PRODUCT IS NOT REGULATED BY DOT OR CANADIAN (TDG) transportation regulation.

15. REGULATORY INFORMATION

US Federal Regulations

A: General Product Information B: Clean Air Act
 No information is available.

C: Component Analysis
 No information is available.

Component Analysis - State

This product contains <0.1% residual acrylamide (CAS # 79-06-1), and the following states recognize acrylamide as a carcinogen or suspected carcinogen: CA (Prop 65), MA, MN, NJ & PA.

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer:

<u>Component</u>	<u>CAS #</u>
Acrylamide	79-06-1
New Jersey RTK Label Information	
Acrylamide	79-06-1
Pennsylvania RTK Label information	
Acrylamide	79-06-1

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

<u>Component</u>	<u>CAS #</u>	<u>TSCA</u>	<u>CAN</u>	<u>EEC</u>
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	Yes	DSL	No
Petroleum distillates, hydrotreated light	6474247-8	Yes	DSL	EINECS
Alcohols, C12-18, ethoxylated	68213-23-0	Yes	DSL	No
Alcohols, C12-16, ethoxylated	68551-12-2	Yes	DSL	No

16. OTHER INFORMATION**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.

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