



Material Safety Data Sheet

1. IDENTIFICATION

PRODUCT NAME: H2-14HL-C

CHEMICAL NAME: Cationic Polymer

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

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Appearance: liquid, white

CAUTION! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF INHALED.

POTENTIAL HEALTH EFFECTS:

Routes of exposure: Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

EYES: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

SKIN: Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

INGESTION: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

INHALATION: Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

AGGRAVATED MEDICAL CONDITION: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions).

SYMPTOMS: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), loss of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), Convulsions, coma

TARGET ORGANS: Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects

CARCINOGENICITY: This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). This product (or a component) is a petroleum-derived material. Similar materials and certain compounds occurring naturally in petroleum oils have been shown to cause skin cancer in laboratory animals following repeated exposure without washing or removal.

REPRODUCTIVE HAZARD: Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

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METHODS FOR CLEANING UP: Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

OTHER INFORMATION: Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

ALIPHATIC HYDROCARBON NJTS# 254504001-5164

ACGIH time weighted average 200 mg/m3 Non-aerosol

NIOSH Recommended exposure limit 100 mg/m3
(REL):

ACGIH time weighted average 200 mg/m3 Non-aerosol

GENERAL ADVICE: These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

EXPOSURE CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

EYE PROTECTION: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

SKIN AND BODY PROTECTION: Wear resistant gloves (consult your safety equipment supplier). Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

RESPIRATORY PROTECTION: A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has overexposure been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid

FORM: viscous

COLOR: white

ODOR: Mild, hydrocarbon-like

BOILING POINT/BOILING RANGE: 103° C / 217°F

PH: No data

FLASH POINT: (>)212 °F/ 100 °C

EVAPORATION RATE: < 1 (n-Butyl Acetate)

EXPLOSION LIMITS: No data

VAPOR PRESSURE: 3 hPa @77°F / 25°C

VAPOR DENSITY: No data

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DENSITY: 1 g/cm³

SOLUBILITY: soluble in water

PARTITION COEFFICIENT: No data

AUTO IGNITION TEMPERATURE: No data

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product is stable under usual application conditions.

CONDITIONS TO AVOID:

INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide and carbon monoxide, various hydrocarbons

HAZARDOUS REACTIONS: Product will not undergo hazardous polymerization.

THERMAL DECOMPOSITION: No data

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:

ALIPHATIC HYDROCARBON LD 50 Rat: > 8,000 mg/kg

SURFACTANT no data available

ALCOHOLS, C12-18, ETHOXYLATED LD 50 Rat: > 2,000 mg/kg
> I < 2.5 MOLE

ACUTE INHALATION TOXICITY

ALIPHATIC HYDROCARBON LD 50 Rat: > 2500 ppm, 4 h

SURF ACT ANT no data available

ALCOHOLS, C12-18, ETHOXYLATED no data available
> I < 2.5 MOLE

ACUTE DERMAL TOXICITY

ALIPHATIC HYDROCARBON LD 50 Rabbit: > 4,000 mg/kg

SURF ACT ANT no data available

ALCOHOLS, C12-18, ETHOXYLATED no data available
> I < 2.5 MOLE

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY

Acute and Prolonged Toxicity to Fish

48 h LC 50 Pimephales promelas (fathead minnow),: 11 mg/l

96 h LC 50 Brachydanio rerio (zebra fish),: > 1 - 10 mg/l Based on a similar product formulation.

Acute Toxicity to Aquatic Invertebrates

48 h LC 50 Water flea (Ceriodaphnia dubia),: 1.75 mg/l

48 h EC 50 Water flea (Daphnia magna),: > 10 mg/l

Based on a similar product formulation.

ENVIRONMENTAL FATE AND PATHWAYS

no data

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: clean it up and dispose of waste in accordance with all Federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.
ACRYLAMIDE

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

ALIPHATIC HYDROCARBON SURFACTANT	NJTS# 254504001-5164	none
SURFACTANT	NJTS# 254504001-5466	none
ALCOHOLS, C12-18, ETHOXYLA TED > 1 <2.5MOLE	68213-23-0	none

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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