



Material Safety Data Sheet

1. IDENTIFICATION

PRODUCT NAME: H2-85IB-C

CHEMICAL NAME: Cationic Polymer

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

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Appearance: solid, white
CAUTION! MAY BE HARMFUL IF SWALLOWED!

POTENTIAL HEALTH EFFECTS:

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

EYES: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

SKIN: Unlikely to cause skin irritation or injury.

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

INHALATION: This material is a dust or may produce dust. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable.

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), Headache, Dizziness

TARGET ORGANS: Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: emphysema

CARCINOGENICITY: Based on the available information, this material cannot be classified with regard to 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).

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

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

HMIS RATINGS NOTES: KEY

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

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>
5949-29-1	CITRIC ACID, MONOHYDRATE	>=1.5-<5%
NJTS# 254504001-5518	AMIDE	>=1-<1.5%

4. FIRST-AID MEASURES

EYES: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

SKIN: No data

INGESTION: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

INHALATION: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

NOTES TO PHYSICIAN: Hazards: No information available. Treatment: No information available.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray

HAZARDOUS COMBUSTION PRODUCTS: carbon dioxide and carbon monoxide, acid vapors, Ammonia, nitrogen compounds

PRECAUTIONS FOR FIRE-FIGHTING: Wear full fire fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. A void spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

ENVIRONMENTAL PRECAUTIONS: Do not flush into surface water or sanitary sewer system.

METHODS FOR CLEANING UP: Sweep up or vacuum up spillage and collect in suitable container for disposal.

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

7. HANDLING AND STORAGE

HANDLING: Avoid creating and breathing dust. Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL, if applicable. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. 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**

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 safety glasses or chemical splash goggles when dust exposure is possible.

SKIN AND BODY PROTECTION: Wear resistant gloves (consult your safety equipment supplier).

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: solid
FORM: powder
COLOR: white
ODOR: mild
BOILING POINT/BOILING RANGE: No data
PH: (ca.) 7 @ 10 g/l
FLASH POINT: No data
EVAPORATION RATE: No data
EXPLOSION LIMITS: No data
VAPOR PRESSURE: 0.00 hPa
VAPOR DENSITY: No data
DENSITY: No data
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: temperatures > 150°C
INCOMPATIBILITY: Acids, nitrates, strong bases, Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, carbon dioxide and carbon monoxide, acid vapors, nitrogen compounds
HAZARDOUS REACTIONS: Dust may form explosive mixture in air.
THERMAL DECOMPOSITION: No data

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:

CITRIC ACID, MONOHYDRATE	no data available
AMIDE	LD 50 Rat: 8,471 mg/kg

ACUTE INHALATION TOXICITY

CITRIC ACID, MONOHYDRATE	no data available
AMIDE	no data available

ACUTE DERMAL TOXICITY

CITRIC ACID, MONOHYDRATE	no data available
AMIDE	no data available

12. ECOLOGICAL INFORMATION

MSDS

H2-85IB-C

AQUATIC TOXICITY

Acute and Prolonged Toxicity to Fish
96 h LC 50 Brachydanio rerio (zebra fish): > 1 - 10 mg/l
Acute Toxicity to Aquatic Invertebrates
48 h EC 50 Water flea (Daphnia magna): Approximate 35 mg/l

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

LEAD

NICKEL

ARSENIC

CADMIUM

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

LEAD

MERCURY

CADMIUM

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

CITRIC ACID, MONOHYDRATE 5949-29-1 none

AMIDE NJTS# 254504001-5518 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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