



## Material Safety Data Sheet

### 1. IDENTIFICATION

**PRODUCT NAME:** H2-29ZFX-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. NOTICE: WHILE THIS MATERIAL HAS A LOW LEVEL OF TOXICITY, GOOD INDUSTRIAL HYGIENE PRACTICES ARE ENCOURAGED TO MINIMIZE EXPOSURE.

#### **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:** This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**INHALATION:** It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). 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

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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.

**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**

<b>CAS #</b>	<b>COMPONENT</b>	<b>PERCENT</b>
NJTS# 254504001-5164	ALIPHATIC HYDROCARBON	>=20-<30%
NJTS# 254504001-5466	SURFACTANT	>=1.5-<5%
	NONIONIC SURFACTANT	>=1.5-<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:** Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**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: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

**5. FIRE-FIGHTING MEASURES**

**SUITABLE EXTINGUISHING MEDIA:** Carbon dioxide (CO<sub>2</sub>), Dry chemical

**HAZARDOUS COMBUSTION PRODUCTS:** carbon dioxide and carbon monoxide, various hydrocarbons

**PRECAUTIONS FOR FIRE-FIGHTING:** Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Flammability Class for Flammable Liquids Combustible Liquid Class IIIB

**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:** Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**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). Wash walking surfaces with detergent and water to reduce slipping hazard.

**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/m <sup>3</sup>	Non-aerosol
NIOSH	Recommended exposure limit (REL):	100 mg/m <sup>3</sup>	
ACGIH	time weighted average	200 mg/m <sup>3</sup>	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 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

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**ODOR:** hydrocarbon like  
**BOILING POINT/BOILING RANGE:** No data  
**PH:** No data  
**FLASH POINT:** (>) 214 °F/ 101 °C  
**EVAPORATION RATE:** < 1 (n-Butyl Acetate)  
**EXPLOSION LIMITS:** 0.6% (V) 7%(V)  
**VAPOR PRESSURE:** 3.00 hPa @ 77°F / 25°C  
**VAPOR DENSITY:** No data  
**DENSITY:** (approximate) 1g/cm<sup>3</sup>  
**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:** strong oxidizing agents  
**INCOMPATIBILITY:** Acids, nitrates, strong bases, 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

NONIONIC SURFACTANT no data available

**ACUTE INHALATION TOXICITY**

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

SURF ACT ANT no data available

NONIONIC SURF ACT ANT no data available

**ACUTE DERMAL TOXICITY**

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

SURF ACT ANT no data available

NONIONIC SURF ACT ANT no data available

**12. ECOLOGICAL INFORMATION****AQUATIC TOXICITY**

Acute and Prolonged Toxicity to Fish

No Data

Acute Toxicity to Aquatic Invertebrates

No Data

**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.

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**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

ETHYLENE OXIDE

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

SARA Hazard Classification Acute Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

ALIPHATIC HYDROCARBON

NJTS# 254504001-5164

none

SURFACTANT

NJTS# 254504001-5466

none

NONIONIC SURFACTANT

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.

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

