

MATERIAL SAFETY DATA

SECTION 1 MATERIAL IDENTIFICATION

PRODUCT NAME OR **AS-3462**
SYNONYMS CATIONIC POLYACRYLAMIDE EMULSION

SECTION 2 INGREDIENTS AND HAZARDS

COMPONENT	CAS. NUMBER	TWA/CEILING	REFERENCE
Petroleum distillate hydrotreated light	64742-47-8	200 mg/m ³	ACGIH
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	Not Established	
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	Not Established	
1,2,3-Propanetricarboxylic acid,2-hydroxy	77-92-9	Not Established	
Hexanedioic Acid	124-04-9	5 mg/m ³	ACGIH

Emergency Overview: Colorless To White Liquid, Slight Or Mild Hydrocarbon Odor. Caution! Corrosive To Eyes. Vapors May Cause Eye And Skin And /Or Respiratory Tract Irritation, Headaches, Dizziness And Central Nervous System Effects. Spills Are Extremely Slippery.

SECTION 3 REGULATORY INFORMATION

OSHA STATUS This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard.

TSCA STATUS All components are listed

CERCLA REPORTABLE QUANTITY 2-Propenamide – 5000 LBS; Hexanedioic acid- 5000 LBS;
2-Propanol -100 LBS

SARA TITLE III:

SECTION 302 (EXTREMELY HAZARDOUS SUBSTANCE) 2-Propenamide CAS 79-06-1 (0 – 0.09%)

SECTION 311/312 (HAZARDOUS SUBSTANCES)

Classification Under Section 311/312 of SARA (40 CFR 370): Acute (Yes) Chronic (No) Fire (No) Reactive (No) Pressure (No)

SECTION 313 (TOXIC CHEMICALS): Not Listed.

RCRA STATUS Not Listed.

NTP, IARC, OSHA & ACGIH STATUS None of the ingredients at concentrations greater than 0.1% are listed.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)	0 MINIMAL
	1 SLIGHT HAZARD
HEALTH - 2	2 MODERATE HAZARD
FIRE - 1	3 SERIOUS HAZARD
REACTIVITY - 0	4 SEVERE HAZARD

Chemical identity of some ingredients may be withheld as confidential as permitted by 29 CFR 1910.1200 and various State right to know laws.

SECTION 4 HEALTH HAZARD AND PROTECTION DATA

TARGET ORGANS

Eyes Skin Gastrointestinal System

ROUTES OF ENTRY INTO BODY

Skin Or Eye Contact Inhalation Ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

Eye Irritation Corrosive To Eyes Skin Irritation Vapors May Cause Eye, Skin, And/Or Respiratory Tract Irritation, Headaches, Dizziness, And Central Nervous System Effects. Aspiration Of Liquid Into The Respiratory System May Cause Bronchopneumonia Or Pulmonary Edema. Direct Or Prolonged Exposure To This Product May Cause Skin Irritation, Which May Be Seen As Redness And Dermatitis.

PROTECTIVE EQUIPMENT REQUIRED:

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Synthetic rubber gloves should be worn when handling this material. Wear chemical goggles, a face shield and chemical resistant clothing such as a rubber apron where splashing may occur. Provide a safety shower and eye wash station at any location where skin/eye contact can occur. Wash skin thoroughly after handling. Clothing wet with product should be placed in a closed container until provisions are made for it to be discarded or laundered. If the clothing is to be laundered the person performing the laundering should be informed of the hazardous properties of the material. Any clothing that becomes wet with the material should be removed immediately and not reworn until the clothing has been properly cleaned. **RESPIRATOR SELECTION** - Use only in well-ventilated areas. Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. **ESCAPE & FIRE FIGHTING** - Self-contained breathing apparatus with a face-piece operated in pressure demand or other positive-pressure mode.

FIRST AID

SKIN CONTACT: Skin that becomes contaminated should be washed or showered with soap and water to remove any chemical from skin. Contaminated clothing should be removed and wash the skin with soap and water. Clothing should be washed before it is reused. If irritation is present, get medical attention.

EYE CONTACT: If material gets into the eyes, flush the eyes immediately with large amounts of water for at least 30 minutes, lifting the lower and upper lids occasionally. Get **MEDICAL** attention immediately. Contact lenses should not be worn when working with this substance or any other chemical.

INHALATION: If a person breathes in large amounts of product mist, move the person to fresh air. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get **MEDICAL** attention as soon as possible.

INGESTION: If a person swallows product, DO NOT induce vomiting. Get **MEDICAL** attention at once. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Aspiration of petroleum distillates may cause chemical pneumonitis.

SECTION 5 PHYSICAL DESCRIPTION

APPEARANCE AND ODOR	Colorless to white liquid; slight or mild hydrocarbon odor.
BOILING POINT	Not determined
MELTING POINT	Not applicable
FLASH POINT	>200 °F (PMCC)
VAPOR PRESSURE	Not determined
SPECIFIC GRAVITY	1.030 +/- 0.02 g/ml
PRODUCT pH	Not Determined
SOLUBILITY IN WATER	Dispersible

SECTION 6 INCOMPATIBILITIES AND STORAGE

Hazardous polymerization will not occur
Keep away from sources of ignition and static discharges
Incompatible with oxidizing materials.
Hazardous Combustion products may produce oxides of carbon and nitrogen.
Addition of water to product in storage can cause emulsion failure.
Keep containers closed when not in use
Store containers with labels visible

SECTION 7 REGULATIONS/OSHA

OSHA Standard 29 CFR 1910.1200	HAZARD COMMUNICATION
OSHA Standard 29 CFR 1910.1000	AIR CONTAMINANTS Table Z-1
OSHA Standard 29 CFR 1910.94	VENTILATION
OSHA Standard 29 CFR 1910.134	RESPIRATORY PROTECTION
OSHA Standard 29 CFR 1910.20	ACCESS TO EMPLOYEE EXPOSURE
OSHA Standard 29 CFR 1910.132	PERSONAL PROTECTIVE EQUIPMENT
OSHA Standard 29 CFR 1910.141	SANITATION
OSHA Standard 29 CFR 1910.151	MEDICAL SERVICES AND FIRST AID
OSHA Standard 29 CFR 1910.133	EYE AND FACE PROTECTION

SECTION 8 EMERGENCY HANDLING OF HAZARDOUS MATERIALS

IF MATERIAL IS ON FIRE OR INVOLVED IN FIRE:

Use foam or water spray, CO₂, or dry chemical extinguishers. Petroleum hydrocarbon component is combustible. Vapors or fumes will ignite.

IF MATERIAL IS NOT ON FIRE OR NOT INVOLVED IN FIRE:

Keep material out of water sources and sewers.

PERSONAL DANGER SITUATION PROTECTION:

Keep upwind. Avoid breathing dust/vapors/fumes from material. Avoid bodily contact with material. Wear boots, protective gloves and gas-tight goggles. Wear full protective clothing (regular FIRE FIGHTERS' gear is inadequate).

SECTION 9 SPILL, LEAK AND DISPOSAL PROCEDURES

Persons not wearing protective equipment and clothing should be restricted from spill areas until clean-up has been completed. If AS-3462 is spilled, take the following steps:

- 1 - Ventilate the spill area. Eliminate sources of ignition.
- 2 - Absorb spill with inert material (dry sand or earth), then place in a disposal drum.
- 3 - Discard any spilled material and the absorbent material in accordance to all FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTE: DO NOT wash or pour AS-3462 into any surface waters or streams or directly into sewers.

SECTION 10 SHIPPING AND TRANSPORTATION DATA

PROPER SHIPPING NAME	Resin Compound, Petroleum Hydrocarbon Polymer
HAZARD CLASS	Not Regulated
IDENTIFICATION NUMBER	NMFC 46032
LABEL REQUIRED	None

DOT (Bulk) Oil Statement:

This product is considered to be oil per the definitions in 49 CFR 130.2. If packed in a container with a capacity of 3,500 gallons or more, the Communication Requirements at 49 CFR 130.11 and the Response Plan Requirements at 49 CFR 130.31 and 130.33 apply to Domestic Transportation by motor vehicles and rolling stock

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<p>This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label carefully and completely.</p>

PENNSYLVANIA and MASSACHUSETTS RIGHT-TO-KNOW INFORMATION:

The following comprises the CHEMICAL IDENTIFICATION LIST

	<u>CAS #</u>	
Hexanedioic Acid	124-04-9	Listed. Environmental hazard
Petroleum distillate hydrotreated light	64742-47-8	Not Listed
2-Propanol	67-63-0	Listed. Environmental Hazard
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	Not Listed
Water	7732-18-5	Not Listed
2-propenamide	79-06-1	Listed. Environmental hazard

NEW JERSEY RIGHT-TO-KNOW TOTAL INGREDIENTS LABEL:

	<u>CAS #</u>
Petroleum distillate hydrotreated light	64742-47-8
Alcohols, C12-14-secondary, ethoxylated	84133-50-6
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4
Hexanedioic Acid	124-04-9
2-Propanol	67-63-0
2-propenamide	79-06-1

CALIFORNIA PROPOSITION 65:

This product does contain toxic chemicals currently on the California list of known carcinogens and reproductive toxins

Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65), this information is provided. This law requires that "clear and reasonable warning" be provided to any individual, knowingly or intentionally exposed to any substances identified by the state as being cancer or reproductive hazards unless, it can be shown that the exposure poses "no significant risk". Based on available data, the following chemicals listed by Proposition 65 may be present in this product:

2-Propenamide	79-06-1	TRACE (< 0.10 % by wt.)
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