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KR-F2321

MATERIAL SAFETY DATA SHEET

FOR EMERGENCY ASSISTANCE
 CALL: 1-800-424-9300 CHEMTREC

FOR ADDITIONAL INFORMATION
 CALL: 412-321-9800

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: **KR-F2321**
 CHEMICAL DESCRIPTION: Anionic polyacrylamide
 PRODUCT CLASS: Polymers
 VERSION: 7-12-2012

SECTION 2: INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %	OSHA PEL	ACGIH TLV
2-Propenoic acid, sodium salt, polymer with 2-propenamides	25085-02-3	30-40	No Information available	No Information available
Petroleum distillates, hydrotreated light	64742-47-8	20-30	No Information available	No Information available
Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-branched	127087-87-0	1-3	No Information available	No Information available

SECTION 3: HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

Opaque, Milky White Liquid; Petroleum Distillate Odor

Eye and skin irritant. OSHA classifies this product as an irritant under 29 CFR1910.1200. 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.

Product spills will make floors extremely slippery.

PRIMARY ROUTES OF ENTRY: Eye contact and skin contact

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May aggravate existing medical conditions such as rashes, allergies or other sensitive areas.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Irritant to the eyes.

SKINCONTACT: Can cause skin irritation

INGESTION: May be harmful if swallowed. Seek medical attention.

INHALATION: Avoid prolonged inhalation of heated and/or concentrated vapors.

SUBCHRONIC, CHRONIC: This product contains petroleum distillates, hydrotreated, light. Prolonged or repeated skin contact with this component tends to remove skin oils, possibly leading to irritation and dermatitis. For more information on the toxicological effects of the product components, see Section 11 (Toxicological Information).

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), Lack of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), Convulsions, coma

CARCINOGENICITY:

NTP: No ingredients listed in this section

IARC: No ingredients listed in this section

OSHA: No ingredients listed in this section

Component Analysis

Petroleum distillates, hydrotreated light (64742-47-8) ACGIH: A3 - Animal Carcinogen (as total hydrocarbon vapor)

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.

SECTION 4: FIRST AID MEASURES

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

SKIN CONTACT: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if symptoms persist. Wash clothing before reuse and decontaminate or discard contaminated shoes.

INGESTION: If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

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

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.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: >200 °F (93.4 °C) Pensky Martens Closed Cup Petroleum hydrocarbon component, if separated from product, is combustible. Vapors can ignite under certain conditions, explosively.

LOWER FLAMMABLE LIMIT: Not available

UPPER FLAMMABLE LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not available

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

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. Wear a self-contained breathing apparatus and full firefighting protective clothing. Keep fire-exposed containers cool by spraying with water.

FIRE & EXPLOSION HAZARDS: No special fire hazards are known to be associated with this product

DECOMPOSITION PRODUCTS: oxides of carbon and nitrogen

Flammability Class for Flammable Liquids: Combustible Liquid Class IIIB

NFPA RATINGS: Health = 1 Flammability = 1 Reactivity = 0 Special Hazard = None

Hazard rating scale: 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

SECTION 6: ACCIDENTAL RELEASE MEASURES

WARNING: Spilled product may create a slip and fall hazard.

CONTAINMENT PROCEDURES: Remove sources of ignition. Contain spill with inert materials (sand, earth, absorbent). Wear protective gear during cleanup.

CLEAN-UP PROCEDURES: Do not allow spills to enter soil or surface water. Absorb spill with inert material. Shovel material into appropriate container for disposal. Remove sources of ignition.

EVACUATION PROCEDURES: Isolate area. Keep unnecessary personnel away.

SPECIAL PROCEDURES: Avoid skin contact and inhalation of vapors during disposal of spills. Wear appropriate protective equipment and clothing during clean-up. Follow all local, state, federal and provincial regulations for disposal. 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.

DISPOSAL: Dispose of used absorbent according to federal, state, and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with skin and eyes. Do not use in areas without adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water. When using do not smoke.

STORAGE: In order to maintain product integrity, store at room temperature in a dry, well-ventilated area away from incompatibles.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles or face shield

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

RESPIRATORY PROTECTION: Not required under normal operating conditions. If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures below irritating levels or airborne exposure limits, whichever is lower. Local exhaust ventilation is preferred because it can control

the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the latest edition of the ACGIH document *Industrial Ventilation, A Manual of Recommended Practices* for details.

WORK PRACTICES: Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling. An eye wash station and safety shower should be accessible in the immediate area of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

pH: Not available

SPECIFIC GRAVITY: 1.0 g/mL

SOLUBILITY IN WATER: Emulsion-soluble in water

BOILING POINT: Similar to water

FREEZING POINT: Not available

VAPOR PRESSURE: Not available

VAPOR DENSITY (air=1): Not available

PARTITION COEFFICIENT (n-octanol/water): Not available

APPEARANCE AND ODOR: Milky White Liquid; Petroleum Distillate Odor

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Incompatibles

INCOMPATIBLE MATERIALS: Strong oxidizers.

DECOMPOSITION PRODUCTS: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

ON PRODUCT/INGREDIENTS

Chemical Name	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
2-Propenoic acid, sodium salt, polymer with 2-propenamide	no data available	no data available	no data available
Petroleum distillates, hydrotreated light	no data available	no data available	no data available
Poly(oxy-1,2-ethanediyl), α -(4-nonylphenyl)- ω -hydroxy-, branched	no data available	no data available	no data available

SECTION 12: ECOLOGICAL INFORMATION

On Product:

Test Material	Aquatic Toxicity Data
Product	<i>Ceriodaphnia dubia</i> 48 hours: 11.0 ppm <i>Pimphales promelas</i> 48 hours: 31.4 ppm

General Product Information
 C.O.D.: 2,176,000 mg/l
 B.O.D.: 548,000 mg/l

SECTION 13: DISPOSAL

Incinerate or dispose of solidified product according to local, state and federal regulations.
 No EPA Waste Numbers are applicable for this product's components.

SECTION 14: TRANSPORTATION

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Status: Hazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: EPA Hazardous Substances (40 CFR 302):

<u>Chemical Name</u>	<u>CERCLA Reportable Quantity (RQ)</u>
None	Not applicable

SARA TITLE III (Sections 302, 311, 312, and 313):

Section 302 Extremely Hazardous Substances (40 CFR 355):

<u>Chemical Name</u>	<u>CAS#</u>	<u>RQ</u>	<u>TPQ</u>
None			

Section 311 and 312 Health and Physical Hazards:

<u>Immediate</u>	<u>Delayed</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactivity</u>
Yes	no	no	no	no

Section 313 Toxic Chemicals (40 CFR 372):

Chemical NameCAS NumberPercent by Weight

None

SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health = 1 Flammability = 1 Reactivity = 0

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

The preceding information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change, and the conditions of handling and use or misuse are beyond our control, Kroff Chemical Company, Inc. makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein, and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.

Date Modified:

7/12/2012