

Suite 450 One North Shore Center 12 Federal Street Pittsburgh, PA 15212

KR-CLDP31

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-CLDP31

CHEMICAL DESCRIPTION: Phosphonate/surfactant solution

PRODUCT CLASS: Cleaners

VERSION: 3-31-2015

SECTION 2: INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %	OSHA PEL	ACGIH TLV
Hydroxyethylidene-1,1- diphosphonic acid, tetrasodium salt	3794-83-0	5-15	None established	None established
Sodium bisulfite	7631-90-5	0.5-1.5	TWA: 5 mg/m ³	TWA: 5 mg/m ³

SECTION 3: HAZARDS IDENTIFICATION:

Clear, colorless liquid CAUTION!

May cause moderate irritation to the eyes.

May cause slight irritation to the skin.

Mists/aerosols may cause irritation to upper respiratory tract.

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, ingestion, and inhalation of product mist

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not known. Exposure may cause redness or itching of skin.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause moderate irritation to the eyes.

SKIN CONTACT: May cause slight irritation to the skin.

INGESTION: May cause gastrointestinal irritation.

INHALATION: Mists/aerosols may cause irritation to upper respiratory tract.

SUBCHRONIC, CHRONIC: No evidence of potential chronic effects.

CARCINOGENICITY:

NTP: No ingredients listed in this section IARC: No ingredients listed in this section OSHA: No ingredients listed in this section

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally to ensure complete rinsing. Get medical attention immediately.

SKIN CONTACT: In a timely manner, remove contaminated clothing and wash the affected area thoroughly with plenty of soap and water. Get medical aid if irritation occurs. Wash clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. If victim is conscious and alert rinse out mouth with water and give large quantities of water to drink. Get medical attention. Never give anything by mouth to an unconscious person.

INHALATION: If exposure by inhalation is suspected, remove victim to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, have a trained medical person give oxygen. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

FLASHPOINT: >200 °F (>93 °C) [TCC]

This product is not by definition a "flammable liquid" or a "combustible liquid".

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, or water

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

FIRE & EXPLOSION HAZARDS: Product emits toxic and irritating gases and fumes under fire conditions.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of carbon and oxides of phosphorus.

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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility in accordance with any local agreement, a permitted waste treatment facility, or discharged under a permit. Dispose of recovered product, if unusable, and used absorbent according to federal, state, and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Avoid contact with eyes, skin, and clothing.

Avoid breathing mist.

Use with adequate ventilation.

Wash thoroughly after handling.

Do not take internally.

Ensure that containers are properly labeled.

Since empty containers retain product residues (vapors, liquid), observe all warnings and precautions listed for the product.

Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE:

Keep containers closed when not in use.

Store in a cool, dry, well-ventilated area away from incompatible materials.

Do not store at elevated temperatures.

Protect product containers from physical damage.

Protect from freezing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles

SKIN PROTECTION: Chemical resistant gloves and clean body covering clothing

RESPIRATORY PROTECTION: If airborne concentrations become irritating or if airborne exposure limits are exceeded, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

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 if 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: Eye wash station should be accessible in the immediate area of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

pH: 6.0-6.5

SPECIFIC GRAVITY: 1.113 g/mL (9.28 lb/gal)

SOLUBILITY IN WATER: Complete

BOILING POINT: Not available

FREEZING POINT: 18 °F (-8 °C)

VAPOR PRESSURE @ 70°F (21°C): ~18 mm Hg

VAPOR DENSITY (air=1): <1.00

EVAPORATION RATE (ether=1): <1.00

VISCOSITY @ 70°F (21°C): 13 cps

APPEARANCE AND ODOR: Clear, colorless liquid with a mild odor

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Elevated temperatures.

INCOMPATIBILITIES: May react with strong oxidizers.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce

oxides of carbon and oxides of phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION

ON INGREDIENTS:

	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
	2,850 mg/Kg	>5,000 mg/Kg	Not available
Sodium bisulfite	>2,000 mg/Kg	>2,000 mg/Kg	Not available

SECTION 12: ECOLOGICAL INFORMATION

ON INGREDIENTS:

	
Test Material	Aquatic Toxicity Data
Product	48 hr LC50 (Daphnia magna): 2,404.14 mg/L
	96 hr LC50 (Fathead Minnow): 2,121.32 mg/L

SECTION 13: DISPOSAL

RCRA STATUS: Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

DISPOSAL: Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORTATION

DOT CLASSIFICATION: Not regulated

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):

Chemical Name

CERCLA Reportable Quantity (RQ)

None

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

Section 302 Extremely Hazardous Substances (40 CFR 355):

Chemical Name None CAS#

RQ

TPQ

Section 311 and 312 Health and Physical Hazards:

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

Reactivity

no

Section 313 Toxic Chemicals (40 CFR 372):

<u>Chemical Name</u> None

CAS Number

Percent by Weight

SECTION 16: OTHER INFORMATION

HMIS RATINGS:

Health = 1

Flammability = 0

Reactivity = 0

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

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