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

ON SITE AS OF 11/4/09
(1) PARTIAL TOTE
~ 100 GALLONS

KR-DF310C 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-DF310C
SYNONYMS: Defoamer
CHEMICAL FAMILY: organosilicone emulsion
Version:08/14/06

SECTION 2: INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV
Hydrophobic silica	67762-90-7	<10%		6 mg/m ³

SECTION 3: HAZARD IDENTIFICATION

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

Opaque white to of-white liquid with mild characteristic odor
CAUTION!
May cause eye and skin irritation upon prolonged contact.

PRIMARY ROUTES OF ENTRY: Dermal

TARGET ORGANS:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Can cause temporary discomfort, redness

SKIN CONTACT: Prolonged contact may cause irritation.

INGESTION: LD₅₀ not established, effects include headache, nausea, and fatigue.

INHALATION: Mists and vapors may irritate mucous membranes.

SUBCHRONIC, CHRONIC: No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to the product.

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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: Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids occasionally to ensure complete rinsing. Seek medical attention if irritation persists.

SKIN CONTACT: Wash the affected area thoroughly with plenty of soap and water. Seek medical aid if symptoms occur.

INGESTION: If swallowed, and the victim is conscious and alert, give 1 to 2 glasses of water or milk. Seek medical advice on whether to induce vomiting, since particulates may be aspirated into the lungs. Never give anything by mouth or induce vomiting if the victim is unconscious. Seek immediate medical attention.

INHALATION: If inhalation occurs, remove victim to fresh air. If breathing stops, give artificial respiration. Seek immediate medical attention for any breathing difficulties.

SECTION 5: FIRE FIGHTING MEASURES

FLASHPOINT: >200°F (>93°C) (TCC)

LOWER FLAMMABLE LIMIT: Not Applicable

UPPER FLAMMABLE LIMIT: Not Applicable

AUTOIGNITION TEMPERATURE: unknown

EXTINGUISHING MEDIA: Carbon dioxide, dry or foam

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

FIRE & EXPLOSION HAZARDS: Toxic gases may be produced under fire conditions.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, and/or carbon dioxide and/or silicon oxides.

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0 Unusual Hazards:
Hazard Rating Scale: 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills of this material may be slippery. Spilled material should be absorbed onto an inert material such as clay, sand or dry-sweeping compound and scooped up. The area should be thoroughly flushed with water and scrubbed to remove residue. If slipperiness remains apply more dry-sweeping compound.

SECTION 7: HANDLING AND STORAGE

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HANDLING:

Avoid contact with eyes, skin, and clothing.
Avoid breathing vapor or mist.
Use with adequate ventilation.
Wash thoroughly using soap and water after handling.

STORAGE:

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

SECTION 8: PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE/FACE PROTECTION: Chemical splash goggles

HAND PROTECTION: Nitrile, PVC, Neoprene, or Natural Rubber gloves

SKIN PROTECTION: Wear standard protective clothing.

RESPIRATORY PROTECTION: Respiratory protection is not normally needed.

ENGINEERING CONTROLS: General ventilation is recommended.

WORK PRACTICES: An eye wash station and safety shower should be accessible in the immediate area of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Opaque white to off-white liquid with mild characteristic odor

pH: 7.0 -8.5

Specific Gravity: 1.0

Solubility in Water: dispersible

Boiling point: 212°F, 100(°C):

Vapor Pressure (mm Hg): <20 mm Hg @ 68 °F

Vapor Density (Air=1): >1.0

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: stable

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID: none known

INCOMPATIBILITIES: strong oxidizing agents

DECOMPOSITION PRODUCTS: carbon and silicone oxides upon combustion

SECTION 11: TOXICOLOGICAL INFORMATION

On Products or Ingredients

Test Material	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)

SECTION 12: ECOLOGICAL INFORMATION

On Products or Ingredients

Test Material	Aquatic Toxicity Data
Product	48 Hr. LC50 (Daphnia magna): 7.25 mg/l
Product	96 Hr. LC50 (Fathead minnow): >500 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

Discarded product, as sold, would not be considered a RCRA Hazardous Waste (40 CFR 261), since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment, or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal, or recycling facility.

SECTION 14: TRANSPORT INFORMATION

DOT CLASSIFICATION:
 Proper Shipping Name: Not applicable
 Primary Hazard Class/Division: Not restricted
 UN Number: Not applicable
 Packing Group: Not applicable
 Label: None

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Status: Non-hazardous
 TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: EPA hazardous substances in the product (40 CFR 302):

Chemical Name	CERCLA Reportable Quantity (RQ)
None	

(Notify the EPA of spills exceeding this amount.)

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

Section 302 Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS#	RQ	TPQ
None			

Section 311 and 312 Health and Physical Hazards (40 CFR 370):

Immediate	Delayed	Fire	Pressure	Reactivity
no	no	no	no	no

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Section 313 Toxic Chemicals (40 CFR 372):

Chemical Name	CAS#	Weight %
None		

SECTION 16: OTHER INFORMATION

HMIS Rating: Health: 1 Flammability: 0 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.