

Material Safety Data Sheet

Number: **DMN0142**

Product Name: **Red-Kote[®]** A liquid fuel tank liner.

Revised: 8/30/11

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent (w/w)</u>	<u>Carcinogen</u>
Acetone	67-64-1	30 - 40%	No
2-Butanone	78-93-3	30 - 40%	No
1,2 Butylene Oxide	106-88-7	1 - 3%	No

Section 3 - Hazards Identification

Emergency Overview: Liquid is moderately irritating to the eyes and mildly irritating to the skin. Flammable concentrations of vapors in air are possible and may travel considerable distances and flash back to the container. Vapors are heavier than air, but the low vapor pressure and evaporation rate make flammable mixtures in the air unlikely. It may be extinguished by CO₂, dry chemical or foam. A clear, dark red, viscous liquid with a solvent odor.

Health Hazards: Eye Irritant, Possible Skin Irritant

Physical Hazards: Flammable

Primary Routes of Entry: Skin contact; Skin absorption; Inhalation; Ingestion

Potential Health Effects:

Eyes - liquid causes irritation, redness and blurred vision. Sticks to eyes, lids and lashes.

Skin - Prolonged or repeated contact may cause skin drying and may result in skin irritation or dermatitis.

Swallowing - Moderately toxic. May obstruct airway.

Breathing - excessive breathing of vapors may cause nasal and respiratory irritation, dizziness, headache, and nausea. High concentrations may cause CNS depression.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin Contact: Wipe off wet material with a paper towel or rag. If dry, it will often peel or rub off. If not, use a small amount of M.E.K., acetone or lacquer thinner on a rag to remove it. Wash the exposed area with soap and water. Remove contaminated clothing and shoes. If irritation develops and persists, get medical attention.

Inhalation: If affected, move the affected person to fresh air. If irritation persists get medical attention. If breathing has stopped, give artificial respiration and get medical attention immediately.

Ingestion: If the product is swallowed, do NOT induce vomiting. Product may block the airway. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: -4° F. / -20° C. (ASTM D-56 closed cup) **Autoignition Temp.:** 869°F / 465° C.

Lower Explosive Limit: 1.74% @ 200°F

Upper Explosive Limit: 12.8% @ 200°F

Extinguishing Media: Water, carbon dioxide, dry chemical, alcohol foam.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: None

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all ignition sources and use a respirator if the spill is large. Dike to prevent entry into drains, sewers, streams and other bodies of water. If wet, small spills may be wiped up. When the material is tacky it may be shoveled or scraped up. Clean-up residue with a solvent such as MEK or acetone. Larger spills can be scooped into metal containers for disposal or absorbed onto oil dry or vermiculite and put into sealed metal containers. Rags and absorbent material are very flammable until the solvent has evaporated.

Section 7 - Handling and Storage

Do not use, pour, spill or store near heat, sparks, heating elements or open flame. Vapors could be ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at a considerable distance from the source. When pouring or transferring, ground the container being poured into and bond from the product can to the container or tank being poured into with wires and alligator clips. Empty containers retain product residue. Observe all hazard precautions given in this data sheet.

Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent (w/w)</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Acetone	67-64-1	30 - 40%	1,000 ppm(1), 250 ppm(2) 500 ppm(3) , 750 ppm(4)	750 ppm(3) 1,000 ppm(3)	-
2-Butanone	78-93-3	30 - 40%	20 ppm(1,2,3,4)	300 ppm(2,3,4)	-
1,2 Butylene Oxide	106-88-7	1 - 3%	No official limits established.		

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: At least 10 air changes per hour for good general room ventilation are recommended. If the exposure limits of an ingredient will be exceeded, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below the limits.

Respiratory Protection: None unless used in an enclosed space. If the exposure limits of an ingredient will be exceeded wear a NIOSH approved respirator with an organic vapor cartridge or SCBA.

Gloves: If the product will contact hands wear gloves such as neoprene or Nitrile. Do not use disposable latex gloves. Nitrile disposable gloves are good.

Eye Protection: If splashing is possible wear safety glasses with side shields or chemical goggles.

Other Protective Equipment: None.

Section 9 - Physical and Chemical Properties

Boiling Point: 175° F. **Solubility In Water:** Negligible **Vapor Pressure:** 70mm Hg
Specific Gravity: 0.97 **Vapor Density:** 2.5 (Air = 1) **Percent Volatiles:** 75%
pH: Not Applicable **Evaporation Rate:** 1.5 (Butyl Alcohol = 1).
Appearance and Odor: A clear, red, viscous liquid with a solvent odor.

Section 10 - Stability and Reactivity

Incompatibility: Oxidizers. **Hazardous Decomposition Products:** CO₂, CO, HCl

Section 11 - Toxicological Information

Acetone	LD ₅₀ -5.8 g/kg rat oral	LC ₅₀ - 50,100ppm/8H rat	IDHL: 2,500ppm
2-Butanone	LD ₅₀ - 3.4 g/kg rat oral	LC ₅₀ - 8,000ppm/8H rat	IDLH - 5,000 ppm
1,2 Butylene Oxide	LD ₅₀ - 1-2 g/kg rat oral		

Butylene oxide is not rated as a carcinogen by OSHA or NTP. IARC rates it in Group 2b, possibly carcinogenic, for the following reasons. Butylene oxide has been shown to produce benign and malignant tumors in rats but not in mice. These tumors occurred only following high exposure levels. Butylene oxide is not believed to pose a carcinogenic risk to man. The small percentage of butylene oxide in Red-Kote makes a high exposure level impossible. In female rats exposed by inhalation to > 1000ppm 2-Butanone (5X TLV), minor embryotoxic/fetotoxic effects were observed. Repeated or prolonged exposure to acetone may be toxic to kidneys, the reproductive system, liver and skin.

Section 12 - Ecological Information

Do not dispose of in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Wet material may be poured onto newspaper or cardboard in a thin layer away from all sources of ignition and allowed to dry. The dry plastic is non-hazardous and may be thrown in the trash. Avoid open burning of the plastic as it gives off dense black smoke. Wet material should be properly incinerated or disposed of in an approved landfill. Comply with all state, local and federal regulations.

Section 14 - Transport Information

D.O.T. Hazard Class: Gallons and larger - PAINT, 3, UN 1263, P.G. II. Quarts and smaller - ORM-D.

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% (w/w)</u>	<u>Lbs./Gallon</u>
METHYL ETHYL KETONE	78-93-3	33%	2.7
1,2 BUTYLENE OXIDE	106-88-7	2.2%	0.2

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

Section 16 - Other Information

NFPA: H:1 F:2 I:0 **HMIS® III:** H:1 F:2 P:0 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 8/22/06. Updated formula information and phone numbers.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.