

**MATERIAL SAFETY DATA SHEET**  
**KAL-GARD RA DILUTED**

PRODUCT NAME: KAL-GARD RA DILUTED  
PRODUCT CODE: PKGRAD

HMIS CODES    H F R P  
                  2\*3 0 G

**1. MANUFACTURING IDENTIFICATION**

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EVERLUBE PRODUCTS  
100 COOPER CIRCLE  
PEACHTREE CITY, GA 30269  
EMERGENCY PHONE: CHEMTREC - 800-424-9300

DATE PREPARED: 7/19/2010  
INFORMATION PHONE: (770) 261-4800  
NAME OF PREPARER: CHEMICAL COMMUNICATIONS COORDINATOR

**2. HAZARDOUS INGREDIENTS**

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COMPONENT/EXPOSURE LIMITS	CAS#	% BY WT.
ETHANOL	64-17-5	30% - 35%
OSHA PEL 1000.000 ppm - TWA		
OSHA VPEL 1000.000 ppm - TWA		
ACGIH TLV 1000.000 ppm - TWA		
LD50 ORAL-7060 mg/kg (rat)		
LC 50 INHALATION-20000 ppm 10 hr (rat)		
METHYL ETHYL KETONE	78-93-3	25% - 30%
OSHA PEL 200.000 PPM - TWA		
OSHA VPEL 200.000 PPM - TWA		
OSHA VPEL 300.000 PPM - STEL		
ACGIH TLV 200.000 PPM - TWA		
ACGIH TLV 300.000 PPM - STEL		
LD50-930 mg/m3 ORAL (rat)		
LD50 100 mg/kg ORAL (mouse)		
LD50 200 ul/kg DERMAL (rabbit)		
TOLUENE	108-88-3	20% - 25%
OSHA PEL 200.00 PPM-TWA		
OSHA PEL 300.000 PPM-CEILING		
OSHA VPEL 100.000 PPM-TWA		
OSHA VPEL 150.000 PPM-STEEL (SKIN)		
ACGIH TLV 50.000 PPM-TWA (SKIN)		
ACGIH TLV 150.000 PPM-STEEL (SKIN)		
MOLYBDENUM DISULFIDE	1317-33-5	0% - 5%
ACGIH TWA I 10 mg/m3		
ACGIH TWA R 3 mg/m3		
LD50/LC50: 500 mg Acute Oral (rats)		
ISOPROPANOL	67-63-0	0% - 5%
OSHA PEL 400.000 ppm-TWA		
OSHA VPEL 400.000 ppm-TWA		
OSHA VPEL 500.000 ppm-STEEL		
ACGIH TLV 200.000 ppm-TWA		
ACHIH TLV 400.000 ppm-STEEL		
LD50 ORAL - 5840 mg/kg (rat)		
LD50 DERMAL-13000 mg/kg (rabbit)		
ANTIMONY TRIOXIDE	1309-64-4	0% - 5%
ACGIH PEL-TWA: 0.5 mg/m3 as Sb		
ACGIH TLV TWA: 0.5 mg/m3 as Sb		
LD50/LC50:		

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>2,000 mg/kg Acute Dermal (rabbit)		
>34,600 mg/kg Acute Oral (rat)		
3,250 mg/kg Acute Intraperitoneal (rat)		
172 mg/kg Acute Intraperitoneal (mouse)		
METHYL ALCOHOL	67-56-1	0% - 5%
OSHA PEL 200.000 ppm-TWA		
OSHA VPEL 200.000 ppm-TWA (Skin)		
OSHA VPEL 500.000 ppm-STEL (Skin)		
ACGIH TLV 200.000 ppm-TWA (Skin)		
ACGIH TLV 250.000 ppm-STEL (Skin)		
LD50 ORAL 1000.0 mg/kg (man)		
LC50 VAPORS 1600 ppm (rats)		
LEAD PHOSPHITE	12141-20-7	0% - 5%
ACGIH TLV-TWA: 0.15 MG/M3 (8 hrs), as Pb		
BLV: 50 MMG/100G BLOOD		
OSHA PEL: 0.05 MG/M3, AS Pb		
METHYL ISOBUTYL KETONE	108-10-1	0% - 5%
OSHA PEL: 100.000 PPM-TWA		
OSHA VPEL 50.000 PPM-TWA		
OSHA VPEL 75.000 PPM-STEL		
ACGIH TLV 50.000 PPM-TWA		
ACGIH TLV 75.000 PPM-STEL		
LD50 ORAL RAT: 2080 MG/KG		
LD50 INHALATION RAT: >2000 PPM, 4 HR		
LD50 DERMAL RABBIT: >3.0 G/KG		
XYLENE	1330-20-7	0% - 5%
ACGIH TLV: 100 PPM		
OSHA PEL: 100 PPM		
ACGIH STEL: 150 PPM		
LD50/LC50:		
LD50:>2000mg/kr (rat)		
LD50: >2000 mg/kr (rabbit)		
LD50: >5000 ppm/1 hour (rat)		
ETHYL BENZENE	100-41-4	0% - 5%
OSHA PEL 100 ppm-TWA		
OSHA VPEL 100 ppm-TWA		
OSHA VPEL 125 ppm-STEL		
ACGIH TLV 100 ppm-TWA		
ACGIH TLV 125 ppm-STEL		
LD50 ORAL: 3500 mg/kg (rat)		

**3. HAZARDS IDENTIFICATION****POTENTIAL EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE:**

Processing fumes may cause irritation of the eyes and respiratory tract. Use with adequate ventilation. Avoid breathing process fumes.

In case of fire, toxic fumes of lead oxide may be emitted.

**EYE CONTACT:**

This material can cause eye irritation.

**SKIN CONTACT:**

Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and skin rash (dermatitis).

**INHALATION:**

Inhalation of high concentrations of solvents may cause narcotic

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effects such as headaches, dizziness, nausea, vomiting and coma.

**INGESTION:**

May cause adverse health effects and can cause gastro-intestinal irritation.

**POTENTIAL EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE:**

No specific information is available regarding long-term exposure to this material. Other information on any known toxic or chronic-health effects of the material or its ingredients can be found in Section 11 - Toxicological Information.

**4. FIRST AID MEASURES**

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**EYE CONTACT:**

With eyelids open, immediately flush eyes with lots of lukewarm water for at least 30 minutes. Get immediate Medical Assistance.

**SKIN CONTACT:**

Wash the skin thoroughly with plenty of water for at least 15 minutes, using a mild and non-abrasive soap. Cold water may be used

Consult a doctor if irritation persists.

**INHALATION:**

Evacuate to fresh air and administer artificial respiration if breathing stopped. Obtain Medical Aid.

**INGESTION:**

Never give anything by mouth if the victim is semi-conscious, unconscious or convulsing.

Seek immediate medical attention.

Induce vomiting immediately by giving 2 glasses of water and stimulating the uvula with a finger.

**NOTE TO PHYSICIANS:**

The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. If more than 2.0 ml/Kg has been ingested, vomiting should be induced with supervision. If symptoms, such as loss of gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

**5. FIRE FIGHTING MEASURES**

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**FLAMMABLE PROPERTIES:**

Vapors may form, with air, an explosive mixture between lower and upper explosive limits.

**FLASH POINT (DEGREES F.)** .....: 23 F  
**FLASH POINT METHOD** .....: TCC  
**LOWER FLAMMABILITY LIMIT (% BY VOLUME)**:: 1.2  
**UPPER FLAMMABILITY LIMIT (% BY VOLUME)**:: 36.0  
**AUTO-IGNITION TEMPERATURE**.....: n/a

**HAZARDOUS DECOMPOSITON PRODUCTS:**

Irritating and/or toxic fumes including the following may be released: Carbon, Lead, Antimony, Sulfur, or their compounds

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Avoid accumulation of water. Product will float on water and may reignite on surface of water.

Closed containers may explode due to pressure build-up when exposed to extreme heat.

DO NOT cut, drill, grind or weld near containers even when empty. Residual product or vapours may ignite or explode.

Extinguish all nearby sources of ignition.

**EXTINGUISHING MEDIA:**

CO<sub>2</sub>, foam, dry chemical or halon

**FIREFIGHTING PROCEDURES / EQUIPMENT:**

Extinguish all nearby sources of ignition.

Use water spray to cool containers and structures exposed to fire.

Fire-Fighters should wear self-contained breathing apparatus and full protective equipment.

**6. ACCIDENTAL RELEASE MEASURES**

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**PERSONAL PRECAUTIONS:**

Emergency personnel must wear the following protective equipment: self-contained breathing apparatus, protective clothing, safety goggles and boots.

Evacuate all personnel not related to emergency procedures.

**ENVIRONMENTAL PRECAUTIONS:**

Prevent the product or the wash waters from entering the water system or sewers.

US regulations require reporting spills of this material that could reach any surface waters. In Canada, report to the applicable provincial environment ministry.

**SPILL RESPONSE / CLEANUP:**

**SMALL SPILL:**

Eliminate all sources of ignition, provide ventilation, contain spill and absorb with inert absorbent.

Issue warning "Flammable". Isolate the hazard area and restrict access.

Handle as highly flammable liquid.

Wear appropriate breathing apparatus (if applicable) and protective clothing.

Prevent the spill or wash from entering sewers or watercourses.

**LARGE SPILL:**

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Remove by mechanical means and place in containers.

**7. HANDLING AND STORAGE**

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**SAFE HANDLING PROCEDURES:**

Maintain good personal hygiene. Avoid breathing processing vapours. Avoid prolonged or repeated skin contact. Wash skin with soap and water after handling. Wash contaminated clothing before re-use.

**STORAGE REQUIREMENTS / CONDITIONS TO AVOID:**

Keep containers closed (when not in use).

Keep away from heat, sparks and flames.

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

Smoking in the area where this material is used should be strictly prohibited.

DO NOT cut, drill, grind or weld near containers even when empty. Residual product or vapours may ignite or explode.

**INCOMPATIBLE MATERIALS:**

Oxidisers, Strong Acids or Alkalies.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**VENTILATION AND ENGINEERING CONTROLS:**

General mechanical ventilation or local exhaust should be suitable to keep vapour concentrations below the threshold limit values.

All ventilation equipment must be explosion proof.

For personal entry into confined spaces (i.e. bulk storage tanks) a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere. Make-up air should always be supplied to balance air exhausted.

Effective exhaust ventilation should always be provided to draw fumes, vapors or dust away from workers to prevent routine inhalation.

**RESPIRATORY PROTECTION:**

Use NIOSH/MSHA approved Cartridge Respirator or Mask to keep airborne mists and concentrations below the time weighted threshold limit values.

**SKIN PROTECTION AND GLOVES:**

Use Chemically impermeable gloves (eg Neoprene or Nitrile) for skin protection.

**EYE PROTECTION:**

Use chemical Safety Glasses/Goggles and Faceshields. Contact lenses should not be worn without goggles.

**OTHER PROTECTIVE EQUIPMENT:**

Eye wash stations and safety showers in the workplace are recommended.

**PERMISSIBLE EXPOSURE LEVELS:**

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PLEASE SEE SECTION 2, HAZARDOUS MATERIALS.

9. PHYSICAL AND CHEMICAL PROPERTIES

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SPECIFIC GRAVITY .....: .90071  
 POUNDS PER GALLON .....: 7.5 lb/gl  
 VOLATILE (% BY VOLUME) .....: Not available  
 VOLATILE (% BY WEIGHT) .....: 90%  
 BOILING POINT (DEGREES F.) .....: 150F to 200F  
 VOC (EPA Method 24).....: 775 grams/liter  
 MELTING POINT.....: Not Established.  
 EVAPORATION RATE (BUTYL ACETATE=1): Faster than n-Butyl Acetate.  
 VAPOR PRESSURE (MM HG AT 20°F.)...: Not Available.  
 VAPOR DENSITY (AIR=1).....: Heavier than air.  
 SOLUBILITY IN WATER .....: Slightly Soluble  
 PH .....: Not Applicable.  
 APPEARANCE AND ODOR .....: Gray/Black liquid, organic solvent odor

10. STABILITY AND REACTIVITY

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**STABILITY AND REACTIVITY:**  
 Stable under normal conditions.

**CONDITIONS TO AVOID:**  
 Heat, sparks, open flames or other sources of ignition.

**MATERIALS TO AVOID:**  
 Oxidizers, Strong Acids or Alkalies.

**HAZARDOUS POLYMERIZATION:**  
 Will not occur.

11. TOXICOLOGICAL INFORMATION

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**LD50 / LC50:**  
 Please see Section 2, Hazardous Ingredients.

**CARCINOGENICITY:**  
 IARC-Yes

NTP-Yes

**MUTAGENICITY:**  
 None known.

**SENSITIZATION TO MATERIAL:**  
 None Known

**CONDITIONS AGGRAVATED BY EXPOSURE:**  
 May aggravate pre-existing skin or respiratory disorders (bronchitis, emphysema, hyper-reactivity) skin allergies, eczema.

**SYNERGYSTIC MATERIALS:**  
 None known

12. ECOLOGICAL INFORMATION

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**ENVIRONMENTAL EFFECTS:**  
 Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Canadian and U.S. regulations require that environmental and/or

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other agencies be notified of a spill incident. The spill area must be cleaned and restored to the original condition or to the satisfaction of authorities.

**AQUATIC TOXICITY:**

Not known to be a marine pollutant

**13. WASTE DISPOSAL**

**WASTE MANAGEMENT:**

Waste management priorities (depending on volumes and concentration of waste) are: 1. Recycle (reprocess), 2. Energy recovery (cement kilns, thermal power generation), 3. Incineration, 4. Disposal at a licensed waste disposal facility. Do not attempt to combust waste on-site. Incinerate at a licensed waste disposal site with approval of environment authority

**14. TRANSPORT INFORMATION**

TDG: PAINT RELATED MATERIAL  
CLASS 3, UN1263, PACKING GROUP II

**15. REGULATORY INFORMATION**

**WHMIS CLASSIFICATION:**

B2, D2A, D2B,

**CANADIAN WHMIS:**

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR), AND THIS MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

**OSHA REGULATED: YES**

**SARA:**

IF THIS MATERIAL HAS ANY COMPONENTS WHICH ARE REPORTABLE UNDER SARA 313 THEY ARE SHOWN IN THE FOLLOWING LISTING. IF THE LISTING IS BLANK, THEN THERE ARE NO REPORTABLE COMPONENTS.

<b>COMPONENTS REPORTABLE UNDER SARA 313: CAS#</b>	<b>% BY WT.</b>
ETHANOL	64-17-5 30% - 35%
METHYL ETHYL KETONE	78-93-3 25% - 30%
TOLUENE	108-88-3 20% - 25%
ANTIMONY TRIOXIDE	1309-64-4 0% - 5%
METHYL ALCOHOL	67-56-1 0% - 5%
LEAD PHOSPHITE	12141-20-7 0% - 5%
METHYL ISOBUTYL KETONE	108-10-1 0% - 5%
N-BUTANOL	71-36-3 0% - 5%
XYLENE	1330-20-7 0% - 5%
ETHYL BENZENE	100-41-4 0% - 5%

ALL COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OR ARE EXCEMPT FROM TSCA INVENTORY REQUIREMENTS

**16. OTHER INFORMATION**

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN IS BELIEVED TO BE ACCURATE AT THE TIME OF PREPARATION OR OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE.

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HOWEVER IT IS THE USER'S RESPONSIBILITY TO DETERMINE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THE PRODUCT. EVERLUBE PRODUCTS ASSUMES NO RESPONSIBILITY. THE CUSTOMER OR RECIPIENT OF THIS MSDS SHOULD ENSURE THAT THE INFORMATION CONTAINED IN THIS MSDS IS MADE AVAILABLE TO ALL EMPLOYEES OR OTHER PERSONS WHOME HE KNOWS OR BELIEVES WILL USE THIS MATERIAL.

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