

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKEN

Kardol Quality ProductsSDS Information Number1-800-252-73659933 Alliance RdTelephone1-513-933-8206Cincinnati, OH 45242Emergency Telephone Number1-800-424-9300

Product Name Kardol 10/Acrylic Laquer Thinner
Product Code 150900, 150901, 150902, 150904, 150906

Product Use or Description Multi-Purpose Cleaner

#### 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance: Liquid, Green in Color

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZINESS, HEADACHE OR NAUSEA. CAUSES EYE IRRITATION. MAY CAUSE SKIN AND REPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITUS AND BURNS. HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED.

#### **Potential Health Effects**

**Exposure Routes:** Inhalation, Skin Absorbtion, Skin Contact, Eye Contact, Ingestion.

Eye Contact: Can cause severe eye irritation. Symtoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

**Skin Contact:** Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

**Ingestion:** Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**Inhalation:** Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

**Aggravated Medical Condition:** Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, blood-forming system, male reproductive system, auditory system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

**Symptoms:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, redness of the skin, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, discomfort in the chest, Lung irritation, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, effects on memory, muscle cramps, Lowered blood pressure, pain in the abdomen and lower back, respiratory depression (slowing of the breathing rate), Blurred vision, Shortness of breath, Lack of coordination, confusion, Difficulty in breathing, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), Bloody urine, blood abnormalities (breakage of red blood cells), narcosis (dazed or sluggish feeling), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, visual impairment (including blindness), coma.

Target Organs: Acute lethal exposure to ethylene glycol monobutyl ether in animal studies has resulted in congestion of organs including kidney, spleen, and lung., Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animals. The relevance of this finding to humans is uncertain., Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage., Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene., Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, mild, reversible spleen effects, blood abnormalities, cardiac sensitization, anemia, effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, central nervous system effects, kidney damage, visual impairment

Carcinogenicity: Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified ethylbenzene as a possible human carcinogen. Ethylene glycol monobutyl ether has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. n-Propanol caused an increased cancer incidence in rats when administered by injection or by placing the material into the stomach. Problems with these studies, including inadequate evaluation of the data, prevent their use in evaluating n-propanol for carcinogenicity. n-Propanol is not listed as carcinogenic by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).

**Reproductive hazard:** This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals., This material was not harmful to the fetus in laboratory animal studies., Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans., Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	CAS-No.	Concentration
TOLUENE	108-88-3	>=40-50%
ISOPROPANOL	67-63-0	>=5-<10%
DIACETONE ALCOHOL	123-42-2	>=5-<10%
PROPYL ACETATE, NORMAL	109-60-4	>=5-<10%
PROPANOL, NORMAL	71-23-8	>=5-<10%
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	>=5-<10%
XYLENE	1330-20-7	>=1.5-<5%
1-METHOXY-2-PROPANOL	107-98-2	>=1.5-<5%
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8	>=1.5-<5%
ETHYL ACETATE	141-78-6	>=1.5-<5%
ETHYL BENZENE	100-41-4	>=1-<1.5%
METHANOL	67-56-1	>=1-<1.5%
SOLVENT NAPHTHA (PETROLEUM), LIGHT	64742-89-8	>=1-<1.5%
PROPYLENE GLYCOL MONOMETHYL ETHER	108-65-6	>=1-<1.5%
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	>=1-<1.5%

# 4. FIRST AID MEASURES

**Eyes:** If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin:** Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

#### **Notes to Physician**

**Hazards:** Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis.

**Treatment:** No information available.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, Carbon dioxide (CO2), Water spray.

**Hazardous Combustion Products:** Acrid smoke and fumes, Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, Ketones, Organic acids, organic compounds, Acetone.

**Precaution For Fire-Fighting:** Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification: Flammable Liquid Class IB

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

**Environmental Precautions:** Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for Clean Up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other Information: Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

#### 7. HANDLING AND STORAGE

**Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Toluene		108-88-3
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	375 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm

ISOPROPANOL		67-63-0
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	400 ppm
NIOSH	Recommended exposure limit (REL):	400 ppm
NIOSH	Recommended exposure limit (REL):	980 mg/m3
NIOSH	Short term exposure limit	500 ppm
NIOSH	Short term exposure limit	1,225 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	980 mg/m3
DIACETONE ALCOHOL		123-42-2
ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	50 ppm
NIOSH	Recommended exposure limit (REL):	240 mg/m3
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	240 mg/m3
PROPYL ACETATE, NORMAL	. C. Mississic Capacitaine	
·		109-60-4
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	840 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	1,050 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	840 mg/m3
PROPANOL, NORMAL		71-23-8
ACGIH	time weighted average	100 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	500 mg/m3
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	625 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	500 mg/m3
ETHYLENE GLYCOL MONOBUTYL	ETHER	111-76-2
ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit (REL):	5 ppm
NIOSH	Recommended exposure limit (REL):	24 mg/m3
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	240 mg/m3
XYLENE		1330-20-7
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	655 mg/m3
1-METHOXY-2-PROPANOL		107-98-2
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	360 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	540 mg/m3
DIPROPYLENE GLYCOL MONOME	THYL ETHER	34590-94-8
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	600 mg/m3

NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	900 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	600 mg/m3
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
ETHYL ACETATE	Short term exposure inne	141-78-6
ACGIH	time weighted average	400 ppm
NIOSH	Recommended exposure limit (REL):	400 ppm
NIOSH	Recommended exposure limit (REL):	1,400 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	1,400 mg/m3
ETHYL BENZENE	. csoute expedite iiiiie	100-41-4
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	125 ppm
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	435 mg/m3
NIOSH	Short term exposure limit	125 ppm
NIOSH	Short term exposure limit	545 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	435 mg/m3
ACGIH NIC	time weighted average	20 ppm
METHANOL		67-56-1
METHANOL ACGIH	time weighted average	<b>67-56-1</b> 200 ppm
	time weighted average Short term exposure limit	-
ACGIH		200 ppm
ACGIH ACGIH	Short term exposure limit	200 ppm 250 ppm
ACGIH ACGIH NIOSH	Short term exposure limit Recommended exposure limit (REL):	200 ppm 250 ppm 200 ppm
ACGIH ACGIH NIOSH NIOSH	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL):	200 ppm 250 ppm 200 ppm 260 mg/m3
ACGIH ACGIH NIOSH NIOSH	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3 64742-89-8
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI OSHA Z1	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit The	200 ppm 250 ppm 200 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3 64742-89-8 500 ppm
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI OSHA Z1 ACGIH	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit IGHT ALIPHATIC time weighted average time weighted average	200 ppm 250 ppm 200 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3  64742-89-8  500 ppm 300 ppm
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI OSHA Z1 ACGIH OSHA Z1	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit IGHT ALIPHATIC time weighted average time weighted average time weighted average time weighted average	200 ppm 250 ppm 200 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3  64742-89-8  500 ppm 300 ppm 2,000 mg/m3
ACGIH ACGIH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 OSHA Z1 ACGIH OSHA Z1 ACGIH	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit IGHT ALIPHATIC time weighted average time weighted average time weighted average time weighted average	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3  64742-89-8  500 ppm 300 ppm 2,000 mg/m3  1,370 mg/m3
ACGIH ACGIH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI OSHA Z1 ACGIH OSHA Z1 ACGIH PROPYLENE GLYCOL MONOMETHYL I	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit IGHT ALIPHATIC time weighted average	200 ppm 250 ppm 200 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3  64742-89-8  500 ppm 300 ppm 2,000 mg/m3 1,370 mg/m3 108-65-6
ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA Z1 OSHA Z1 SOLVENT NAPHTHA (PETROLEUM), LI OSHA Z1 ACGIH OSHA Z1 ACGIH PROPYLENE GLYCOL MONOMETHYL II WEEL	Short term exposure limit Recommended exposure limit (REL): Recommended exposure limit (REL): Short term exposure limit Short term exposure limit Permissible exposure limit Permissible exposure limit IGHT ALIPHATIC time weighted average	200 ppm 250 ppm 200 ppm 200 ppm 260 mg/m3 250 ppm 325 mg/m3 200 ppm 260 mg/m3  64742-89-8  500 ppm 300 ppm 2,000 mg/m3 1,370 mg/m3  108-65-6 50 ppm

**General Advice:** These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Eye Protection:** Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. Maintain eye wash station near work area.

**Skin and Body Protection:** Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

**Respiratory Protection:** A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical stateliquidFormliquidColourWater-whiteOdourno data available

**Boiling point/boiling range** 132.89 °F / 56.05 °C @ 1,013.25 hPa Calculated Phase Transition Liquid/Gas

Melting point/rangeno data availableSublimation pointno data availablepHno data available

Flash point -4 °F / -20 °C Tag closed cup

Ignition temperatureno data availableEvaporation rateno data available

**Lower explosion limit/Upper explosion limit** 1 %(V) / 36 %(V) Calculated Explosive Limit

Particle size no data available

**Vapour pressure** 307.969 hPa @ 77 °F / 25 °C Calculated Vapor Pressure

Relative vapour density no data available

**Density** 0.873 g/cm3n7.270 lb/gal @ 68 °F / 20 °C

Bulk density No data

Water solubility no data available no data available Solubility(ies) Partition coefficient: n-octanol/water no data available log Pow no data available **Autoignition temperature** no data available no data available Viscosity, dynamic Viscosity, kinematic no data available **Solids in Solution** no data available no data available **Decomposition temperature** no data available **Burning number Dust explosion constant** No Data Minimum ignition energy no data available

### 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Heat, flames and sparks. Exposure to air or moisture over prolonged periods., Do not allow evaporation to dryness., excessive heat.

**Incompatable Products:** acid anhydrides, Acids, Aldehydes, aluminum, Amines, Ammonia, Bases, chlorates, Chlorine, Ethylene oxide, halogenated hydrocarbons, halogens, hydroxides, isocyanates, Lead, nitrates, Oxidizing agents, Oxygen, peroxides, salts of strong bases, silica, sodium, strong bases, Zinc, Do not use with aluminum equipment at temperatures above 120 degrees F.

**Hazardous Decompisition Products:** acrid smoke and fumes, Aldehydes, carbon dioxide and carbon monoxide, formaldehyde, Hydrocarbons, Organic acids, organic compounds, ketones.

**Hazardous Reactions:** Product will not undergo hazardous polymerization.

Thermal decomposition: No Data

#### 11. TOXICOLOGICAL INFORMATION

#### Acute oral toxicity

TOLUENE LD 50 Rat: 2.6 g/kg
ISOPROPANOL no data available
DIACETONE ALCOHOL LD 50 Rat: 4,000 mg/kg
PROPYL ACETATE, NORMAL LD 50 Rat: 9,370 mg/kg
PROPANOL, NORMAL LD 50 Rabbit: 2,800 mg/kg
ETHYLENE GLYCOL MONOBUTYL ETHER LD 50 Guinea pig: 1.2 g/kg
XYLENE LD 50 Rat: 4,300 mg/kg

1-METHOXY-2-PROPANOL LD 50 Rat: 7,200 mg/kg DIPROPYLENE GLYCOL MONOMETHYL ETHER LD 50 Rat: 5,135 mg/kg **FTHYL ACFTATE** no data available ETHYL BENZENE LD 50 Rat: 3,500 mg/kg LD LO Human: 300 mg/kg **METHANOL** 

SOLVENT NAPHTHA (PETROLEUM), LIGHT

PROPYLENE GLYCOL MONOMETHYL ETHER

LD 50 Rat: 8,532 mg/kg DIETHYLENE GLYCOL MONOETHYL ETHER LD 50 Rat: 8,690 mg/kg

LD 50 Mouse: 6,580 mg/kg

LD 50 Rat: > 8,000 mg/kg

Acute inhalation toxicity

ALIPHATIC

TOLUENE LC 50 Rat: 8000 ppm; 4 h LC 50 Rat: 8,000 mg/l; 4 h LC 50 Rat: 12,200 mg/l; 2 h

**ISOPROPANOL** LC 50 Rat: 16000 ppm; 4 h

DIACETONE ALCOHOL no data available

PROPYL ACETATE, NORMAL LC 50 Rat: 8000 ppm; 4 h LC 50 Rat: 4000 ppm; 4 h PROPANOL, NORMAL ETHYLENE GLYCOL MONOBUTYL ETHER LC 50 Guinea pig: > 633 ppm; 1 h **XYI FNF** LC 50 Rat: 6700 ppm: 4 h 1-MFTHOXY-2-PROPANOL LC 50 Rat: > 10000 ppm; 4 h

DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available

ETHYL ACETATE LC 50 Rat: 16,000 mg/l; 6 h ETHYL BENZENE LC Lo Rat: 4000 ppm; 4 h METHANOL LC 50 Rat: 64000 ppm; 4 h

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC LC 50 Rat: 3400 ppm; 4 h

PROPYLENE GLYCOL MONOMETHYL ETHER

**ACFTATE** LC 50 Rat: > 5344 ppm; 4 h

DIETHYLENE GLYCOL MONOETHYL ETHER no data available

Acute dermal toxicity

**TOLUENE** LD 50 Rabbit: 12,124 mg/kg

**ISOPROPANOL** no data available

DIACETONE ALCOHOL LD 50 Rabbit: 13,500 mg/kg

PROPYL ACETATE, NORMAL no data available

PROPANOL, NORMAL LD 50 Rabbit: 5,040 mg/kg ETHYLENE GLYCOL MONOBUTYL ETHER LD 50 Rabbit: 400 - 500 mg/kg LD 50 Guinea pig: > 2,000 mg/kg

XYLENE LD 50 Rabbit: > 2,000 mg/kg 1-METHOXY-2-PROPANOL LD 50 Rabbit: 13,000 mg/kg DIPROPYLENE GLYCOL MONOMETHYL ETHER LD 50 Rabbit: 9.5 g/kg

no data available

ETHYL BENZENE LD 50 Rabbit: 17,800 mg/kg **METHANOL** LD 50 Rabbit: 12,800 mg/kg

SOLVENT NAPHTHA (PETROLEUM), LIGHT

**ALIPHATIC** LD 50 Rat: > 4,000 mg/kg

PROPYLENE GLYCOL MONOMETHYL ETHER

**ACETATE** LD 50 Rabbit: (>) 5,000 mg/kg DIETHYLENE GLYCOL MONOETHYL ETHER LD 50 Rabbit: 4,150 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### Biodegradability

**ETHYL ACETATE** 

no data available **TOLUENE ISOPROPANOL** no data available DIACETONE ALCOHOL no data available no data available PROPYL ACETATE, NORMAL PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available **XYLENE** no data available 1-METHOXY-2-PROPANOL no data available

DIPROPYLENE GLYCOL MONOMETHYL ETHER 75%

Exposure time: 28 d

Method: OECD Test Guideline 301D

ETHYL ACETATE no data available ETHYL BENZENE no data available

METHANOL 99%

Exposure time: 28 d

Method: OECD Test Guideline 301D

SOLVENT NAPHTHA (PETROLEUM), LIGHT

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

no data available

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE no data available
DIETHYLENE GLYCOL MONOETHYL ETHER no data available

Bioaccumulation

**ALIPHATIC** 

TOLUENE Species: Ide, silver or golden orfe (Leuciscus idus)

Exposure time: 3 d Dose: 0.05 mg/l

Bioconcentration factor (BCF): 94

Method: Not reported no data available no data available PROPYL ACETATE, NORMAL no data available propanol, Normal no data available ethylene glycol monobutyl ether no data available

XYLENE no data available

1-METHOXY-2-PROPANOL no data available

PURPORYLENE GLYCOL MONOMETHYLETHER no data available

DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available

ETHYL ACETATE Species: Green algae (Chlorella fusca vacuolata)

Exposure time: 24 h Dose: 0.05 mg/l

Bioconcentration factor (BCF): 13,500

Method: Static no data available

METHANOL Species: Green algae (Chlorella fusca vacuolata)

Exposure time: 24 h Dose: 0.05 mg/l

Bioconcentration factor (BCF): 28,400

Method: Static

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC no data available

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE no data available DIETHYLENE GLYCOL MONOETHYL ETHER no data available

**Ecotoxicity effects** 

Toxicity to fish

ETHYL BENZENE

TOLUENE 96 h Renewal LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 5.80 mg/l

96 h static test LC 50 Fathead minnow (Pimephales promelas): 12.60 mg/l

96 h LC 50 Fathead minnow (Pimephales

ISOPROPANOL promelas): 5,770.00 - 7,450.00 mg/l Method:

DIACETONE ALCOHOL no data available PROPYL ACETATE, NORMAL no data available PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available

XYLENE 96 h static test LC 50 Fathead minnow (Pimephales promelas): 23.53 - 29.97 mg/l

1-METHOXY-2-PROPANOL no data available

 $\label{eq:discrete_prop_lem} \mbox{DIPROPYLENE GLYCOL MONOMETHYL ETHER} \qquad 96 \ \mbox{h LC 50 Pimephales promelas (fathead minnow):} > 10,000.00 \ \mbox{mg/l}$ 

ETHYL ACETATE 96 h flow-through test LC 50 Fathead minnow (Pimephales promelas): 220.00 - 250.00 mg/l
ETHYL BENZENE 96 h static test LC 50 Fathead minnow (Pimephales promelas): 9.10 - 15.60 mg/l

96 h Renewal LC 50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 4.20 mg/l; Mortality

trout (Oncorhynchus mykiss): 18,000.00 -

METHANOL 20,000.00 mg/l

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC no data available

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE no data available
DIETHYLENE GLYCOL MONOETHYL ETHER no data available

#### Toxicity to daphnia and other aquatic invertebrates:

TOLUENE 48 h static test EC 50 Water flea (Daphnia magna): 6.00 mg/l

ISOPROPANOL 24 h static test LC 50 Water flea (Daphnia magna): > 10,000.00 mg/l Method: Static Mortality

DIACETONE ALCOHOL no data available PROPYL ACETATE, NORMAL no data available PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available

XYLENE 24 h static test LC 50 Water flea (Daphnia magna): > 100.00 - < 1,000.00 mg/l

1-METHOXY-2-PROPANOL no data available

DIPROPYLENE GLYCOL MONOMETHYL ETHER 48 h LC 50 Water flea (Daphnia magna): 1,919.00 mg/l

ETHYL ACETATE 48 h static test LC 50 Water flea (Daphnia cucullata): 154.00 mg/l

ETHYL BENZENE 48 h static test EC 50 Water flea (Daphnia magna): 1.37 - 4.40 mg/l Intoxication

METHANOL 48 h static test EC 50 Water flea (Daphnia magna): > 10,000.00 mg/l

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC no data available

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE no data available DIETHYLENE GLYCOL MONOETHYL ETHER no data available

Toxicity to algae

**TOLUENE** no data available **ISOPROPANOL** no data available DIACETONE ALCOHOL no data available no data available PROPYL ACETATE, NORMAL PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available XYLENE no data available 1-METHOXY-2-PROPANOL no data available

DIPROPYLENE GLYCOL MONOMETHYL ETHER 96 h Growth inhibition Green algae (Selenastrum capricornutum): > 969.00 mg/l

ETHYL ACETATE no data available

ETHYL BENZENE 96 h Growth inhibition Pseudokirchneriella subcapitata (green algae): 3.60 mg/l

METHANOL no data available

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC no data available

PROPYLENE GLYCOL MONOMETHYL ETHER

ACETATE no data available DIETHYLENE GLYCOL MONOETHYL ETHER no data available

**Toxicity to Bacteria** 

TOLUENE no data available **ISOPROPANOL** no data available DIACETONE ALCOHOL no data available no data available PROPYL ACETATE, NORMAL no data available PROPANOL, NORMAL ETHYLENE GLYCOL MONOBUTYL ETHER no data available **XYLENE** no data available 1-METHOXY-2-PROPANOL no data available DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available no data available ETHYL ACETATE ETHYL BENZENE no data available no data available MFTHANOL

SOLVENT NAPHTHA (PETROLEUM), LIGHT

ALIPHATIC no data available

ACETATE DIETHYLENE GLYCOL MONOETHYL ETHER  Biochemical Oxygen Demand (BOD) TOLUENE  ISOPROPANOL DIACETONE ALCOHOL PROPYL ACETATE, NORMAL PROPANOL, NORMAL THYLENE GLYCOL MONOBUTYL ETHER PROPANOL, NORMAL THYLENE GLYCOL MONOBUTYL ETHER THYLENE GLYCOL MONOMETHYL ETHER ETHYL BENZENE METHANOL SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC DIACETONE ALCOHOL PROPYLENE GLYCOL MONOBUTYL ETHER ACETATE THYLENE GLYCOL MONOMETHYL ETHER ACETATE TO data available TO data avai	PROPYLENE GLYCOL MONOMETHYL ETHER	
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ETHYL ACETATE  ETHYL BENZENE  METHANOL  SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  DIETHYLENE GLYCOL MONOETHYL ETHER  Additional ecological information  TOLUENE  ISOPROPANOL  DIACETONE ALCOHOL  PROPYL ACETATE, NORMAL  PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available		
ETHYL ACETATE  ETHYL BENZENE  METHANOL  SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  DIETHYLENE GLYCOL MONOETHYL ETHER  Additional ecological information  TOLUENE  ISOPROPANOL  DIACETONE ALCOHOL  PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  XYLENE  1-METHOXY-2-PROPANOL  DIPROPYLENE GLYCOL MONOBUTYL ETHER  DIETHYLENE GLYCOL MONOBUTYL ETHER  NO data available		
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ALIPHATIC  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  DIETHYLENE GLYCOL MONOETHYL ETHER  Additional ecological information  TOLUENE  ISOPROPANOL  DIACETONE ALCOHOL  PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  XYLENE  1-METHOXY-2-PROPANOL  DIPROPYLENE GLYCOL MONOMETHYL ETHER  ETHYL ACETATE  ETHYL ACETATE  TO data available  no data available	METHANOL	no data available
PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  DIETHYLENE GLYCOL MONOETHYL ETHER  Additional ecological information  TOLUENE  ISOPROPANOL  DIACETONE ALCOHOL  PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  XYLENE  1-METHOXY-2-PROPANOL  DIPROPYLENE GLYCOL MONOMETHYL ETHER  ETHYL ACETATE  ETHYL ACETATE  TO data available  no data available	SOLVENT NAPHTHA (PETROLEUM), LIGHT	
ACETATE DIETHYLENE GLYCOL MONOETHYL ETHER  Additional ecological information  TOLUENE ISOPROPANOL DIACETONE ALCOHOL PROPYL ACETATE, NORMAL PROPANOL, NORMAL ETHYLENE GLYCOL MONOBUTYL ETHER XYLENE 1-METHOXY-2-PROPANOL DIPROPYLENE GLYCOL MONOMETHYL ETHER ETHYL ACETATE ETHYL BENZENE NO data available	ALIPHATIC	no data available
Additional ecological information  TOLUENE ISOPROPANOL DIACETONE ALCOHOL PROPYL ACETATE, NORMAL PROPANOL, NORMAL ETHYLENE GLYCOL MONOBUTYL ETHER NO data available ETHYL ACETATE INDIA CETATE IND	PROPYLENE GLYCOL MONOMETHYL ETHER	
Additional ecological information  TOLUENE  ISOPROPANOL  DIACETONE ALCOHOL  PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available  NO data available  NO data available  TO data available  NO data available  THYLENE GLYCOL MONOMETHYL ETHER  NO data available  NO data available  THYL ACETATE  NO data available	ACETATE	no data available
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TOLUENE no data available ISOPROPANOL no data available DIACETONE ALCOHOL no data available PROPYL ACETATE, NORMAL no data available PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available XYLENE no data available 1-METHOXY-2-PROPANOL no data available DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available ETHYL ACETATE no data available ETHYL BENZENE no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER no data available PROPYLENE GLYCOL MONOMETHYL ETHER no data available	Additional ecological information	
ISOPROPANOL no data available DIACETONE ALCOHOL no data available PROPYL ACETATE, NORMAL no data available PROPANOL, NORMAL no data available ETHYLENE GLYCOL MONOBUTYL ETHER no data available XYLENE no data available 1-METHOXY-2-PROPANOL no data available DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available ETHYL ACETATE no data available ETHYL BENZENE no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	<del>-</del>	no data available
PROPYL ACETATE, NORMAL  PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available  ethyl Acetate  ethyl Benzene  Methanol  Solvent Naphtha (Petroleum), Light  Aliphatic  Propylene Glycol Monomethyl ether  no data available		no data available
PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available  ETHYL ACETATE  ETHYL BENZENE  NO data available  no data available  NETHANOL  SOLVENT NAPHTHA (PETROLEUM), LIGHT  ALIPHATIC  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  no data available  no data available	DIACETONE ALCOHOL	no data available
PROPANOL, NORMAL  ETHYLENE GLYCOL MONOBUTYL ETHER  NO data available  ETHYL ACETATE  ETHYL BENZENE  NO data available  no data available  NETHANOL  SOLVENT NAPHTHA (PETROLEUM), LIGHT  ALIPHATIC  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE  no data available  no data available	PROPYL ACETATE, NORMAL	no data available
ETHYLENE GLYCOL MONOBUTYL ETHER no data available  XYLENE no data available  1-METHOXY-2-PROPANOL no data available  DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available  ETHYL ACETATE no data available  ETHYL BENZENE no data available  METHANOL no data available  SOLVENT NAPHTHA (PETROLEUM), LIGHT  ALIPHATIC no data available  PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE no data available	*	no data available
1-METHOXY-2-PROPANOL no data available DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available ETHYL ACETATE no data available ETHYL BENZENE no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available		no data available
DIPROPYLENE GLYCOL MONOMETHYL ETHER no data available ETHYL ACETATE no data available no data available no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	XYLENE	no data available
ETHYL ACETATE no data available ETHYL BENZENE no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	1-METHOXY-2-PROPANOL	no data available
ETHYL BENZENE no data available METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	DIPROPYLENE GLYCOL MONOMETHYL ETHER	no data available
METHANOL no data available SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	ETHYL ACETATE	no data available
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	ETHYL BENZENE	no data available
ALIPHATIC no data available PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE no data available	METHANOL	no data available
PROPYLENE GLYCOL MONOMETHYL ETHER  ACETATE no data available	SOLVENT NAPHTHA (PETROLEUM), LIGHT	
ACETATE no data available	ALIPHATIC	no data available
	PROPYLENE GLYCOL MONOMETHYL ETHER	
DIETHVI ENE GLYCOL MONOETHVI ETHER no data available	ACETATE	no data available
DIETHTEENE GETEGE MONGETHTE ETHEN HO data available	DIETHYLENE GLYCOL MONOETHYL ETHER	no data available

# **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Kardol's Environmental Services at 800-252-7365.

# **14. TRANSPORT INFORMATION**

#### **REGULATION**

D Number	/ Proper Shipping Name	/ *Hazard Class	/ Subsidiary Hazards / Packing Group / Packing Group/ Marine Pollutant LTD QTY
J.S. DOT - R	DAD		
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
J.S. DOT - R	AIL		
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
J.S. DOT - IN	LAND WATERWAYS		
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
<b>TRANSPORT</b>	CANADA - ROAD		
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
<b>TRANSPORT</b>	CANADA - RAIL		
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
<b>TRANSPORT</b>	CANADA - INLAND WATERWAY	S	
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
NTERNATIO	NAL MARITIME DANGEROUS G	OODS	
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
NTERNATIO	NAL AIR TRANSPORT ASSOCIAT	ION - CARGO	
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
NTERNATIO	NAL AIR TRANSPORT ASSOCIAT	ION - PASSENGER	
J.N. 1993	Flammable liquids, n.o.s.	3	II
	(Toluene, Isopropanol)		
MEXICAN RE	GULATION FOR THE LAND TRAI	NSPORT OF HAZARE	DOUS MATERIALS AND WASTES
J.N. 1993	Liquido Inflamable, n.o.s.	3	II
	N.E.P. (Toluene, Isopropand	ol)	

<sup>\*</sup>ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

# **15. REGULATORY INFORMATION**

#### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.	ETHYL BENZENE
	CUMENE
	BENZENE
WARNING! This product contains a chemical known to the State of California to cause birth	TOLUENE
defects or other reproductive harm.	BENZENE

#### **SARA Hazard Classification**

Fire Hazard Acute Chronic

Health Hazard

Health Hazard

# SARA 313 Component(s)

TOLUENE	42.40%
ETHYLENE GLYCOL MONOBUTYL ETHER	5.94%
DIETHYLENE GLYCOL MONOETHYL ETHER	1.20%
XYLENE	4.29%

ETHYL BENZENE	1.30%
METHANOL	1 20%

### **New Jersey RTK Label Information**

DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0
METHANOL	67-56-1
ETHYL BENZENE	100-41-4
ETHYL ACETATE	141-78-6
1-METHOXY-2-PROPANOL	107-98-2
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8
XYLENE	1330-20-7
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2
PROPANOL, NORMAL	71-23-8
PROPYL ACETATE, NORMAL	109-60-4
DIACETONE ALCOHOL	123-42-2
ISOPROPANOL	67-63-0
TOLUENE	108-88-3

#### **Pennsylvania RTK Label Information**

BENZENE	71-43-2
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0
METHANOL	67-56-1
ETHYL BENZENE	100-41-4
ETHYL ACETATE	141-78-6
1-METHOXY-2-PROPANOL	107-98-2
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8
XYLENE	1330-20-7
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2
PROPANOL, NORMAL	71-23-8
PROPYL ACETATE, NORMAL	109-60-4
DIACETONE ALCOHOL	123-42-2
ISOPROPANOL	67-63-0
TOLUENE	108-88-3

#### **Notification status**

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz.	
Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

#### **Reportable quantity - Product**

US. EPA CERCLA Hazardous Substances (40 CFR 302)

2327 lbs

### **Reportable quantity-Components**

XYLENE <u>1330-20-7</u> 100 lbs

	HMIS	NFPA
Health	2*	2
Flammability	3	3
Physical hazards	0	0
Instability	0	0
Specific Hazard	0	0

# **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Kardol's Environmental Health and Safety Department (1-800-252-7365).