

# **SAFETY DATA SHEET**

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

Kardol Quality Products 9933 Alliance Rd Cincinnati, OH 45242

SDS Information Number Telephone Emergency Telephone Number 1-800-252-7365 1-513-933-8206 **1-800-424-9300** 

Product Name Product Code Product Use or Description ACRA LAC/WAX AND GREASE REMOVER 100201, 100204, 100205 SOLVENT, in industrial applications

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance: liquid, colourless

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

### **Potential Health Effects**

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

Eye Contact: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

**Skin Contact:** May cause mild skin irritation. Symptoms may include redness and burning of skin. 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 small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts 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. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8).

**Aggravated Medical Condition:** Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, skin, lung (for example, asthma-like conditions), immune system, Liver, Upper respiratory tract, Kidney, urinary system, Central nervous system, male reproductive 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 erythrocyte glucose-6-phosphate dehydrogenase deficiency are particularly susceptible to hemolytic agents and rapidly develop hemolytic anemia from ingestion or inhalation of this material (or a component).

**Symptoms:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, sweating, Fever, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), discomfort in the chest, Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in behavior, Abdominal pain, confusion, blood abnormalities (breakage of red blood cells), narcosis (dazed or sluggish feeling), kidney damage, lung damage, respiratory failure, coma.

**Target Organs:** Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, central nervous system effects, liver abnormalities, cataracts, eye damageThis material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain., 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., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, cataracts, anemia, nasal damage, testis damage, eye damage, kidney damage, liver damage.

**Carcinogenicity:** Cumene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. Cumene is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration. In a National Toxicology Program (NTP) study, lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In a previous NTP study, lifetime exposure to naphthalene caused lung tumors in female mice. Male mice with the same exposure did not develop tumors. The relevance of this finding to humans is uncertain. Naphthalene is listed as carcinogenic by IARC (International Agency for Research on Cancer) and the National Toxicology Program (NTP).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.

Reproductive hazard: This material (or a component) causes harm to the fetus., Cumene (isopropylbenzene) did not cause harm to the unborn pup in laboratory

animal studies, even at levels which were harmful to the pregnant animal. **Other information:** Infants are more sensitive than adults to the toxic effects of naphthalene. Diapers or cloths stored with mothballs and used directly on infants have caused skin rashes and illness. Naphthalene vapors from clothing or blankets that had been stored in or near the infant's room have caused illness and death.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Components	CAS-No.	Concentration
Stoddard solvent	8052-41-3	90-100%
Solvent naphtha (petroleum), medium aliph.	64742-88-7	70-100%
Solvent naphtha (petroleum), light arom.	64742-95-6	10-30%
1,2,4-trimethylbenzene	95-63-6	5-10%
Benzene, trimethyl-	25551-13-7	5-10%
Cumene	98-82-8	0.1-1%
Ethylbenzene	100-41-4	0.1-1%
Mixed Xylenes	1330-20-7	0.1-1%

# **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, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### **Notes to Physician**

**Hazards:**Inhalation or ingestion of high levels of this material (or a component) may cause a hemolytic reaction. Complications of acute intravascular hemolysis include anemia, leukocytosis, fever, hemoglobinuria, jaundice, renal insufficiency, and sometimes disturbances in liver function. Fats, for example, baby oil on the skin or ingested oil, facilitate absorption of naphthalene. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

# **5. FIRE-FIGHTING MEASURES**

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

Hazardous Combustion Products: Hydrocarbons, carbon dioxide and carbon monoxide, acrid smoke and fumes.

**Precaution For Fire-Fighting:** If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. 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). 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: Combustible Liquid Class II

### **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**

Stoddard solvent		8052-41-3		
ACGIH	8-hour, time-weighted average	100 ppm		
NIOSH	Time-weighted average concentration for up to	Time-weighted average concentration for up to a		
NIOSH	10-hour workday during a 40-hour workweek	350 mg/m3		
NIOSH	Ceiling value not be exceeded at any time.	1,800 mg/m3		
OSHA	8-hour time weighted average	500 ppm		
OSHA	8-hour time weighted average	2,900 mg/m3		
OSHA	8-hour time weighted average	100 ppm		
OSHA 8-hour time weighted average		525 mg/m3		
Solvent naphtha (petroleur	m), medium aliph.	64742-88-7		
OSHA	8-hour time weighted average	500 ppm		
OSHA	8-hour time weighted average	2,000 mg/m3		
ACGIH	8-hour time weighted average	200 mg/m3		
OSHA	8-hour time weighted average	400 ppm		
OSHA 8-hour time weighted average		1,600 mg/m3		
Solvent naphtha (petroleur	m), light arom.	64742-95-6		
OSHA	8-hour time weighted average	500 ppm		
OSHA	8-hour time weighted average	2,000 mg/m3		

ACGIH	9 hour time weighted everage	200 mg/m2		
OSHA	8-hour time weighted average 8-hour time weighted average	200 mg/m3 400 ppm		
OSHA	8-hour time weighted average	400 ppm 1,600 mg/m3		
	8-110th time weighted average	1,000 mg/m3		
1,2,4-trimethylbenzene		95-63-6		
	Time-weighted average concentration for up to a	1		
NIOSH	10-hour workday during a 40-hour workweek	25 ppm		
	Time-weighted average concentration for up to a	ì		
NIOSH	10-hour workday during a 40-hour workweek	125 mg/m3		
Benzene, trimethyl-		25551-13-7		
ACGIH	8-hour, time-weighted average	25 ppm		
OSHA	8-hour, time-weighted average	25 ppm		
OSHA	8-hour, time-weighted average	125 mg/m3		
Cumene		98-82-8		
ACGIH	8-hour, time-weighted average	50 ppm		
	Time-weighted average concentration for up to a	50 ppm		
NIOSH	10-hour workday during a 40-hour workw			
	Time-weighted average concentration for up to a			
NIOSH	10-hour workday during a 40-hour workw	245 mg/m3		
OSHA	8-hour, time-weighted average	50 ppm		
OSHA	8-hour, time-weighted average	245 mg/m3		
OSHA 8-hour, time-weighted average				
OSHA		50 ppm		
OSHA OSHA	8-hour, time-weighted average 8-hour, time-weighted average	50 ppm 245 mg/m3		
OSHA		245 mg/m3		
osha Ethylbenzene	8-hour, time-weighted average	245 mg/m3 100-41-4		
OSHA Ethylbenzene ACGIH	8-hour, time-weighted average 8-hour, time-weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm		
OSHA Ethylbenzene ACGIH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit	245 mg/m3 100-41-4 100 ppm 125 ppm		
OSHA Ethylbenzene ACGIH ACGIH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH NIOSH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH NIOSH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not	245 mg/m3 <b>100-41-4</b> 100 ppm 125 ppm 100 ppm 435 mg/m3		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm 435 mg/m3 125 ppm 545 mg/m3		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 8-hour time weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm 435 mg/m3 125 ppm 545 mg/m3 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA OSHA	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 8-hour time weighted average 8-hour time weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm 435 mg/m3 125 ppm 545 mg/m3		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH OSHA OSHA OSHA	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 8-hour time weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm 435 mg/m3 125 ppm 545 mg/m3 100 ppm 435 mg/m3 100 ppm 435 mg/m3 100 ppm		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH NIOSH OSHA OSHA OSHA OSHA	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 8-hour time weighted average 8-hour time weighted average 8-hour time weighted average 8-hour time weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm 435 mg/m3 125 ppm 545 mg/m3 100 ppm 435 mg/m3 100 ppm 435 mg/m3		
OSHA Ethylbenzene ACGIH ACGIH NIOSH NIOSH NIOSH OSHA OSHA OSHA	8-hour, time-weighted average 8-hour, time-weighted average Short term exposure limit Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 8-hour time weighted average 8-hour time weighted average 8-hour time weighted average	245 mg/m3 100-41-4 100 ppm 125 ppm 100 ppm 435 mg/m3 125 ppm 545 mg/m3 100 ppm 435 mg/m3 100 ppm 435 mg/m3 100 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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

4

Physical state	liquid
Form	liquid
Colour	Water-white
Odour	petroleum distillates, hydrocarbon-like
Boiling point/boiling range	315 - 424 °F / 157 - 218 °C
Melting point/range	-94 °F / -70 °C
pН	na
Flash point	109 °F / 43 °C
Evaporation rate	0.11 n-Butyl Acetate
Lower explosion limit/Upper explosion limit	1.0 %(V) / 6.0 %(V)
Vapour pressure	0.220 mmHg @ 68 °F / 20 °C
Relative vapour density	4.9
Density	0.7720 g/cm3 @ 60.01 °F / 15.56 °C
Water solubility	negligible
Autoignition temperature	446 - 464 °F / 230 - 240 °C
Viscosity, kinematic	(<)3 mm2/s @ 40 °C

### **10. STABILITY AND REACTIVITY**

#### Stability: Stable

Conditions to Avoid: Heat, flames and sparks.

Incompatable Products: Strong oxidizing agents, alkalis, Nitric acid, reducing agents, Strong acids, sulphuric acid

Hazardous Decompisition Products: Hydrocarbons, carbon dioxide and carbon monoxide

Hazardous Reactions: Hazardous polymerisation does not occur.

Thermal decomposition: No Data

### **11. TOXICOLOGICAL INFORMATION**

#### Acute oral toxicity

Stoddard solvent

Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-Cumene Ethylbenzene

**Mixed Xylenes** 

#### Acute inhalation toxicity

Stoddard solvent Solvent naphtha (petroleum), medium aliph.

Solvent naphtha (petroleum), light arom.

1,2,4-trimethylbenzene Benzene, trimethyl-

Cumene Ethylbenzene Mixed Xylenes

#### Acute dermal toxicity

Stoddard solvent

Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene g/kg Species: rat LD50: 5,000 mg/kg Species: rat LD50: 2,000 mg/kg Species: rat Method: Fixed dose procedure LD50: 5,000 mg/kg Species: rat LD50: 5,000 mg/kg Species: rat LD50: 8,970 mg/kg Species: rat LD50: 2,260 mg/kg Species: rat LD50: 3,500 mg/kg Species: rat LD50: 4,300 mg/kg Target Organs: Kidney, Bladder LC50: > 5,500 mg/m3 Exposure time: 4 hSpecies: ratMethod: Acute toxicity estimate LC50: 5.5 mg/l Exposure time: 4 h Species: rat LC50: > 4.3 mg/l Exposure time: 4 h Species: rat LC50: 5.6 mg/l Exposure time: 4 h Species: rat Remarks: Acutely Toxic Category 1 LC50: 3661 ppm Exposure time: 4 h no data available LC50: 17.6 mg/l Exposure time: 6 h Species: rat Test substance: cumene Remarks: no data available LC50: 1,700 mg/l Exposure time: 4 h

LD50: > 3 g/kg Species: rabbit LD50: 3,000 mg/kg Species: rabbit LD50: 2,000 mg/kg Species: rabbit Method: Fixed dose procedure LD50: 2,000 mg/kg Species: rabbit no data available Remarks: no data available LD50: 2,000 mg/kg Species: rat LD50: 15,433 mg/kg Species: rabbit

# **12. ECOLOGICAL INFORMATION**

# Biodegradability

Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl- Cumene Ethylbenzene Mixed Xylenes Bioaccumulation Ecotoxicity effects	no data available aerobic 61 % Testing period: 10 d Test substance: Solvent naphtha (petroleum), heavy aromatic aerobic 77.05 % Remarks: Readily biodegradable 4 - 18 % aerobic Remarks: Not readily biodegradable. Remarks: Not readily biodegradable. Result: Readily biodegradable. 72% Remarks: The bioaccumulation potential cannot be determined.
Toxicity to fish Stoddard solvent	Species: Fish - Remarks: Very toxic to aquatic organisms
Solvent naphtha (petroleum), medium aliph.	LL50: 2.5 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Analytical monitoring: yesTest Type: semi-static test Test Type: semi- static test
Solvent naphtha (petroleum), light arom.	9.22 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Analytical monitoring: yes Test Type: Renewal Remarks: Toxic to aquatic organisms.
1,2,4-trimethylbenzene	LC50: 7.72 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Test Type: flow-through test
Benzene, trimethyl-	LC50: 5.0 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) Method: Static
Cumene	LC50: 4.8 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Test substance: Cumene (isopropyl benzene) Method: Flow through
Ethylbenzene Mixed Xylenes	LC50: 88 mg/l Exposure time: 96 h no data available

### Toxicity to daphnia and other aquatic invertebrates:

,	LL50: 3.5 mg/l
Stoddard solvent	Exposure time: 96 h
Stoudard Solvent	
	Species: Daphnia magna (Water flea)
	EL50: 1.4 mg/l
	Exposure time: 48 h
Solvent naphtha (petroleum), medium aliph.	Species: Daphnia magna (Water flea)
	Analytical monitoring: yes
	Test Type: Immobilization
	6.14 mg/l
	Exposure time: 48 h
Solvent naphtha (petroleum), light arom.	Species: Daphnia magna (Water flea)
	Analytical monitoring: yes
	Remarks: Toxic to aquatic organisms
	EC50: 3.6 mg/l
1,2,4-trimethylbenzene	Exposure time: 48 h
1,2,4-01111ettryibenzene	Species: Daphnia magna (Water flea)
	Test Type: Immobilization
Benzene, trimethyl-	no data available
	EC50: 2.14 mg/l
	Exposure time: 48 h
	Species: Daphnia magna (Water flea)
Cumene	Test substance: cumene
	Method: Static
	Test Type: Immobilization
	EC50: 2.9 mg/l
Ethylbenzene	Exposure time: 48 h
	EC50: 75.49 mg/l
	Exposure time: 24 h
Mixed Xylenes	Species: Daphnia magna (Water flea)
Wixed Aylenes	Species. Daprina magna (water nea)
Toxicity to algae	
Toxicity to algae	FrC50-1.2 mg/l
Toxicity to algae	ErC50: 1.2 mg/l Exposure time: 72 b
Toxicity to algae	Exposure time: 72 h
	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green
	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l
	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h
	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h
Stoddard solvent Solvent naphtha (petroleum), medium aliph.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l
Stoddard solvent	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h
Stoddard solvent Solvent naphtha (petroleum), medium aliph.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green
Stoddard solvent Solvent naphtha (petroleum), medium aliph.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae)
Stoddard solvent Solvent naphtha (petroleum), medium aliph.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom.	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/IExposure time: 72 h
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EC50: 3.6 mg/l
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EC50: 3.6 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EC50: 3.6 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green algae)
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl- Cumene	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EC50: 3.6 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green
Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EL50: 1 - 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Analytical monitoring: yes Test Type: static test EC50: 56 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition no data available no data available EC50: 2.60 mg/lExposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) EC50: 3.6 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes

EC50: 4.36 mg/l Exposure time: 73 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Test Type: Growth inhibition

no data available

no data available no data available

no data available

**Mixed Xylenes** 

#### **Toxicity to Bacteria**

Stoddard solvent Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light arom. 1,2,4-trimethylbenzene Benzene, trimethyl-Cumene Ethylbenzene **Mixed Xylenes** 

### **Biochemical Oxygen Demand (BOD)**

Stoddard solvent no data available Solvent naphtha (petroleum), medium aliph. no data available Solvent naphtha (petroleum), light arom. no data available 1,2,4-trimethylbenzene no data available Benzene, trimethylno data available no data available Cumene no data available Ethylbenzene **Mixed Xylenes** no data available

#### Chemical Oxygen Demand (COD)

Stoddard solvent	no data available
Solvent naphtha (petroleum), medium aliph.	no data available
Solvent naphtha (petroleum), light arom.	no data available
1,2,4-trimethylbenzene	no data available
Benzene, trimethyl-	no data available
Cumene	no data available
Ethylbenzene	no data available
Mixed Xylenes	no data available
Additional ecological information	

#### ditional ecological information Staddard colvent

Stoddard solvent	no data available
Solvent naphtha (petroleum), medium aliph.	no data available
Solvent naphtha (petroleum), light arom.	no data available
1,2,4-trimethylbenzene	no data available
Benzene, trimethyl-	no data available
Cumene	no data available
Ethylbenzene	no data available
Mixed Xylenes	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

ID Nu	ımber /	Proper Shipping Name	/ *Hazard Class	/ Subsidiary Hazards / Packing Group / Packing Group/Marine Pollutant LTD QTY
U.S. D	OT - ROA	\D		
U.N.	1993	Flammable liquids, n.o.s.	3	
		(Toluene, Isopropanol)		
U.S. D	OT - RAII	-		
U.N.	1268	Flammable liquids, n.o.s.	3	ll
		(Toluene, Isopropanol)		
U.S. D	OT - INLA	AND WATERWAYS		
U.N.	1268	Flammable liquids, n.o.s.	3	ll
		(Toluene, Isopropanol)		
TRAN	SPORT C	ANADA - ROAD		
U.N.	1268	PETROLEUM DISTILLATES,	3	ll
		N.O.S.		
TRAN	SPORT CA	ANADA - RAIL		
U.N.	1268	PETROLEUM DISTILLATES,	3	ll
		N.O.S.		
TRAN	SPORT C	ANADA - INLAND WATERWAY	Ś	
U.N.	1268	PETROLEUM DISTILLATES,	3	ll
		N.O.S.		
INTER	NATION	AL MARITIME DANGEROUS G	OODS	
U.N.	1268	PETROLEUM DISTILLATES,	3	ll
		N.O.S.		
INTER	NATION	AL AIR TRANSPORT ASSOCIAT	ION - CARGO	
U.N.	1268	PETROLEUM DISTILLATES,	3	
		N.O.S.		
INTER	NATION	AL AIR TRANSPORT ASSOCIAT	ION - PASSENGER	
U.N.	1268	PETROLEUM DISTILLATES,	3	
		N.O.S.		
MEXI	CAN REG	JLATION FOR THE LAND TRAI	NSPORT OF HAZARI	DOUS MATERIALS AND WASTES
U.N.	1268	DESTILADOS DE PETROLEO,	3	
		N.E.P.		
*			<b>D</b>	

#### \*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.	Cumene
	Ethylbenzene
	Naphthalene
	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 Health Hazard Chronic Health Hazard

### SARA 313 Component(s)

#### New Jersey RTK Label Information

Kerosine (petroleum), hydrodesulfurized64742-81-0Naphtha (petroleum), hydrodesulfurized heavy64742-82-1Solvent naphtha (petroleum), medium aliph.64742-88-7Kerosine (petroleum)8008-20-6

Stoddard solvent	8052-41-3	
Pennsylvania RTK Label Information		
Kerosine (petroleum), hydrodesulfurized	64742-81-0	
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	
Solvent naphtha (petroleum), medium aliph.	64742-88-7	
Kerosine (petroleum)	8008-20-6	
Stoddard solvent	8052-41-3	
C9-C15 Cycloalkanes		
C9-C15 Alkanes		
C9-C15 Aromatics		
1,2,4-trimethylbenzene	95-63-6	
Benzene, trimethyl-	25551-13-7	
C7-C8 Aromatics		
Notification status		
1907/2006 (EU)		n (Negative listing)
Switzerland. New notified substances and declare	d preparations	n (Negative listing)
United States TSCA Inventory		y (positive listing)
Canadian Domestic Substances List (DSL)		n (Negative listing)
Canadian Domestic Substances List (DSL)		y (positive listing)
Australia Inventory of Chemical Substances (AICS)		n (Negative listing)
New Zealand. Inventory of Chemical Substances		n (Negative listing)
Japan. ENCS - Existing and New Chemical		
Substances Inventory		n (Negative listing)
Japan. ISHL - Inventory of Chemical Substances		
(METI)		n (Negative listing)
Korea. Korean Existing Chemicals Inventory (KECI)		n (Negative listing)
Korea. Korean Existing Chemicals Inventory (KECI) Philippines Inventory of Chemicals and Chemical		n (Negative listing)

China. Inventory of Existing Chemical Substances in China (IECSC)

**Reportable quantity - Product** 

### **Reportable quantity-Components**

Reportable quantity-comp	onenta				
MIXED XYLENEs	1330-20-7	1330-20-7			
		HMIS		NFPA	
Health		2*		2	
Flammability		3		3	
Physical hazards		0		0	

n (Negative listing)

# **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)

0

0

---

Instability

Specific Hazard

0

0