



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

**Product Name** Color Grade Lacquer Thinner - Slow  
**Product Code** 150120, 150122, 150126  
**Product Use or Description** No Data

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Appearance: Liquid, Colourless

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

### Potential Health Effects

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

**Eye Contact:** Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**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. 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, Upper respiratory tract, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, blood-forming 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 may be 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: metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), runny nose, 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, muscle cramps, pain in the abdomen and lower back, Blurred vision, Shortness of breath, Lack of coordination, confusion, irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), high blood sugar, visual impairment (including blindness), coma.

**Target Organs:** 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., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., 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 kidney effects, blood abnormalities, liver abnormalities, respiratory tract damage (nose, throat, and airways), central nervous system damage, 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:, kidney damage, visual impairment.

**Carcinogenicity:** This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

**Reproductive hazard:** 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., This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components                         | CAS-No.    | Concentration |
|----------------------------------------------|------------|---------------|
| TOLUENE                                      | 108-88-3   | >=45-<50%     |
| METHANOL                                     | 67-56-1    | >=15-<20%     |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | >=0-<15%      |
| Naphtha (petroleum), hydrotreated light      | 64742-49-0 | >=0-<15%      |
| ACETONE                                      | 108-65-6   | >=10-<25%     |
| Ethylene Glycol Monobutyl Ether              | 111-76-2   | >=0-<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. 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. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. 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 (CO<sub>2</sub>), Water spray

**Hazardous Combustion Products:** Carbon dioxide and carbon monoxide, Hydrocarbons, Aldehydes, organic compounds

**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/m <sup>3</sup>   |
| NIOSH   | Short term exposure limit                                                                 | 150 ppm                 |
| NIOSH   | Short term exposure limit                                                                 | 560 mg/m <sup>3</sup>   |
| OSHA Z2 | time weighted average                                                                     | 200 ppm                 |
| OSHA Z2 | Ceiling Limit Value:                                                                      | 300 ppm                 |
| OSHA Z2 | Maximum concentration:                                                                    | 500 ppm                 |
| Acetone |                                                                                           | 67-64-1                 |
| ACGIH   | 8-hour, time-weighted average                                                             | 750 ppm                 |
| NIOSH   | Short-term exposure limit                                                                 | 250 ppm                 |
| NIOSH   | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek | 590 mg/m <sup>3</sup>   |
| OSHA    | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek | 1,000 ppm               |
| OSHA    | 8-hour time weighted average                                                              | 2,400 mg/m <sup>3</sup> |
| OSHA    | 8-hour time weighted average                                                              | 750 ppm                 |

|      |                              |                         |
|------|------------------------------|-------------------------|
| OSHA | 8-hour time weighted average | 1,800 mg/m <sup>3</sup> |
| OSHA | 8-hour time weighted average | 1,000 ppm               |
| OSHA | 8-hour time weighted average | 2400 mg/m <sup>3</sup>  |

**SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC****64742-89-8**

|         |                       |                         |
|---------|-----------------------|-------------------------|
| OSHA Z1 | time weighted average | 500 ppm                 |
| ACGIH   | time weighted average | 300 ppm                 |
| OSHA Z1 | time weighted average | 2,000 mg/m <sup>3</sup> |
| ACGIH   | time weighted average | 1,370 mg/m <sup>3</sup> |

**METHANOL****67-56-1**

|         |                                   |                       |
|---------|-----------------------------------|-----------------------|
| 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): | 260 mg/m <sup>3</sup> |
| NIOSH   | Short term exposure limit         | 250 ppm               |
| NIOSH   | Short term exposure limit         | 325 mg/m <sup>3</sup> |
| OSHA Z1 | Permissible exposure limit        | 200 ppm               |
| OSHA Z1 | Permissible exposure limit        | 260 mg/m <sup>3</sup> |

**Ethylene Glycol Monobutyl Ether Acetate****111-76-2**

|       |                                                                                           |                       |
|-------|-------------------------------------------------------------------------------------------|-----------------------|
| ACGIH | 8-hour, time-weighted average                                                             | 20 ppm                |
|       | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek | 5 ppm                 |
| NIOSH |                                                                                           |                       |
|       | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek | 24 mg/m <sup>3</sup>  |
| NIOSH |                                                                                           |                       |
|       | 8-hour time weighted Average                                                              | 50 ppm                |
| OSHA  | 8-hour time weighted Average                                                              | 240 mg/m <sup>3</sup> |
| OSHA  | 8-hour time weighted Average                                                              | 25 ppm                |
| OSHA  | 8-hour time weighted Average                                                              | 120 mg/m <sup>3</sup> |

**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.

**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 state              | liquid                                                               |
| Form                        | liquid                                                               |
| Colour                      | Water-white                                                          |
| Odour                       | no data available                                                    |
| Boiling point/boiling range | 133 °F / 56 °C @ 1,013.23 hPa Calculated Phase Transition Liquid/Gas |
| Melting point/range         | no data available                                                    |
| Sublimation point           | no data available                                                    |
| pH                          | no data available                                                    |

|                                             |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| Flash point                                 | (>=)-4 °F / -20 °C                                    |
| Ignition temperature                        | no data available                                     |
| Evaporation rate                            | no data available                                     |
| Lower explosion limit/Upper explosion limit | 1.27 %(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                                     | 6.850 lb/gal @ 68 °F / 20 °C                          |
| Bulk density                                | No data                                               |
| Water solubility                            | no data available                                     |
| Solubility(ies)                             | no data available                                     |
| Partition coefficient: n-octanol/water      | no data available                                     |
| log Pow                                     | no data available                                     |
| Autoignition temperature                    | no data available                                     |
| Viscosity, dynamic                          | no data available                                     |
| Viscosity, kinematic                        | no data available                                     |
| Solids in Solution                          | no data available                                     |
| Decomposition temperature                   | no data available                                     |
| Burning number                              | no data available                                     |
| Dust explosion constant                     | No Data                                               |
| Minimum ignition energy                     | no data available                                     |

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Heat, flames and sparks.

**Incompatible Products:** Acids, alkalis, aluminum, Amines, Ammonia, halogens, Lead, peroxides, Reducing agents, sodium, strong bases, Strong oxidizing agents, Zinc

**Hazardous Decomposition Products:** carbon dioxide and carbon monoxide, Hydrocarbons, formaldehyde, Aldehydes, organic compounds

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

**Thermal decomposition:** No Data

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

|                               |                   |
|-------------------------------|-------------------|
| Acute oral toxicity - Product | No Data Available |
|-------------------------------|-------------------|

### Acute oral toxicity - Components

|                                              |                          |
|----------------------------------------------|--------------------------|
| TOLUENE                                      | LD 50 Rat: 2.6 g/kg      |
| METHANOL                                     | LD L0 Human: 300 mg/kg   |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | LD 50 Rat: > 8,000 mg/kg |
| Acetone                                      | LD 50 Rat: 5,800 mg/kg   |

### Acute inhalation toxicity

|                                     |                   |
|-------------------------------------|-------------------|
| Acute inhalation toxicity - Product | No Data Available |
|-------------------------------------|-------------------|

### Acute inhalation toxicity - Components

|                                              |                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------|
| TOLUENE                                      | LC 50 Rat: 8000 ppm; 4 h<br>LC 50 Rat: 8,000 mg/l; 4 h<br>LC 50 Rat: 12,200 mg/l; 2 h |
| METHANOL                                     | LC 50 Rat: 64000 ppm; 4 h                                                             |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | LC 50 Rat: 3400 ppm; 4 h                                                              |
| Acetone                                      | LC 50 Rat: > 16000 ppm; 4 h                                                           |
| Ethylene glycol                              | LC50: 450 ppm Exposure time: 4 h Species: rat<br>monobutyl ether Symptoms: ataxia     |

### Acute dermal toxicity

|                                 |                   |
|---------------------------------|-------------------|
| Acute dermal toxicity - Product | No Data Available |
|---------------------------------|-------------------|

### Acute dermal toxicity - Components

|                                              |                              |
|----------------------------------------------|------------------------------|
| TOLUENE                                      | LD 50 Rabbit: 12,124 mg/kg   |
| METHANOL                                     | LD 50 Rabbit: 12,800 mg/kg   |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | LD 50 Rat: > 4,000 mg/kg     |
| Acetone                                      | LD 50 Rabbit: > 20,000 mg/kg |

## 12. ECOLOGICAL INFORMATION

### Biodegradability

|                            |                   |
|----------------------------|-------------------|
| Biodegradability - Product | No Data Available |
|----------------------------|-------------------|

#### Biodegradability - Components

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| TOLUENE                                      | no data available                |
| METHANOL                                     | 99%                              |
|                                              | Exposure time: 28 d              |
|                                              | Method: OECD Test Guideline 301D |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available                |
| Acetone                                      | no data available                |

### Bioaccumulation

|                           |                   |
|---------------------------|-------------------|
| Bioaccumulation - Product | No Data Available |
|---------------------------|-------------------|

#### Bioaccumulation - Components

|                                              |                                                      |
|----------------------------------------------|------------------------------------------------------|
| 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                                 |
| 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                                    |
| ACETONE                                      | no data available                                    |

### Ecotoxicity effects

### Toxicity to fish

|                            |                   |
|----------------------------|-------------------|
| Toxicity to fish - Product | No Data Available |
|----------------------------|-------------------|

#### Toxicity to fish - Components

|                                              |                                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| 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                              |
|                                              | trout (Oncorhynchus mykiss): 18,000.00 - 20,000.00 mg/l                                              |
| METHANOL                                     |                                                                                                      |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available                                                                                    |
| Ethylene glycol monobutyl ether              | LC50: 220 mg/l Exposure time: 96 h Species: Fish                                                     |
| Acetone                                      | 96 h static test LC 50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 4,740.00 - 6,330.00 mg/l |
|                                              | 96 h static test LC 50 Bluegill (Lepomis macrochirus): 8,300.00 mg/l                                 |
|                                              | 96 h flow-through test LC 50 Fathead minnow (Pimephales promelas): 8,733.00 - 9,482.00 mg/l          |

### Toxicity to daphnia and other aquatic invertebrates:

|                                                               |                   |
|---------------------------------------------------------------|-------------------|
| Toxicity to daphnia and other aquatic invertebrates - Product | No Data Available |
|---------------------------------------------------------------|-------------------|

#### Toxicity to daphnia and other aquatic invertebrates - Components

|                                              |                                                                     |
|----------------------------------------------|---------------------------------------------------------------------|
| TOLUENE                                      | 48 h static test EC 50 Water flea (Daphnia magna): 6.00 mg/l        |
| METHANOL                                     | 48 h static test EC 50 Water flea (Daphnia magna): > 10,000.00 mg/l |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available                                                   |

|                                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| Ethylene glycol monobutyl ether | EC50: 1,815 mg/l<br>Exposure time: 24 h<br>Species: <i>Daphnia magna</i> (Water flea) |
| Acetone                         | no data available                                                                     |

### Toxicity to algae

Toxicity to algae - Products no data available

Toxicity to algae - Components

|                                              |                                                                                                                                                                |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylene glycol monobutyl ether              | EC50: 911 mg/l<br>Exposure time: 72 h<br>Species: <i>Pseudokirchneriella subcapitata</i> (green algae)<br>Analytical Monitoring: Yes<br>Test Type: static test |
| TOLUENE                                      | no data available                                                                                                                                              |
| Acetone                                      | no data available                                                                                                                                              |
| METHANOL                                     | no data available                                                                                                                                              |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available                                                                                                                                              |
| Ethylene glycol monobutyl ether              | LC50: 220 mg/l Exposure time: 96 h Species: Fish                                                                                                               |

### Toxicity to Bacteria

Toxicity to Bacteria - Products

|                                              |                   |
|----------------------------------------------|-------------------|
| TOLUENE                                      | no data available |
| METHANOL                                     | no data available |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available |
| Acetone                                      | no data available |
| Ethylene glycol monobutyl ether              | no data available |

### Biochemical Oxygen Demand (BOD)

|                                              |                   |
|----------------------------------------------|-------------------|
| TOLUENE                                      | no data available |
| METHANOL                                     | no data available |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available |
| Acetone                                      | no data available |
| Ethylene glycol monobutyl ether              | no data available |

### Chemical Oxygen Demand (COD)

|                                              |                   |
|----------------------------------------------|-------------------|
| TOLUENE                                      | no data available |
| METHANOL                                     | no data available |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available |
| Acetone                                      | no data available |
| Ethylene glycol monobutyl ether              | no data available |

### Additional ecological information

|                                              |                   |
|----------------------------------------------|-------------------|
| TOLUENE                                      | no data available |
| METHANOL                                     | no data available |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | no data available |
| Acetone                                      | no data available |
| Ethylene glycol monobutyl 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

| ID Number / Proper Shipping Name / *Hazard Class / Subsidiary Hazards / Packing Group / Packing Group/ Marine Pollutant LTD QTY |                                                            |   |  |    |  |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---|--|----|--|
| U.S. DOT - ROAD                                                                                                                 |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| U.S. DOT - RAIL                                                                                                                 |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| U.S. DOT - INLAND WATERWAYS                                                                                                     |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| TRANSPORT CANADA - ROAD                                                                                                         |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| TRANSPORT CANADA - RAIL                                                                                                         |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| TRANSPORT CANADA - INLAND WATERWAYS                                                                                             |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| INTERNATIONAL MARITIME DANGEROUS GOODS                                                                                          |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO                                                                                 |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER                                                                             |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>(Toluene, Isopropanol)        | 3 |  | II |  |
| MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES                                                     |                                                            |   |  |    |  |
| U.N. 1263                                                                                                                       | Flammable liquids, n.o.s.<br>N.E.P. (Toluene, Isopropanol) | 3 |  | II |  |
| *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<br>NAPHTHALENE<br>BENZENE |
| WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. | TOLUENE<br>BENZENE                      |

SARA Hazard Classification

Fire Hazard Acute Chronic  
Acute Health Hazard  
Chronic Health Hazard

SARA 313 Component(s)

|          |        |
|----------|--------|
| TOLUENE  | 40.00% |
| METHANOL | 5.00%  |

New Jersey RTK Label Information

|                                              |            |
|----------------------------------------------|------------|
| METHANOL                                     | 67-56-1    |
| TOLUENE                                      | 108-88-3   |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 |
| Acetone                                      | 67-64-1    |

Pennsylvania RTK Label Information

|          |         |
|----------|---------|
| METHANOL | 67-56-1 |
|----------|---------|



|                                              |            |
|----------------------------------------------|------------|
| TOLUENE                                      | 108-88-3   |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 |
| Acetone                                      | 67-64-1    |
| Benzene                                      | 71-43-2    |

Notification status

|                                                                                                                     |                      |
|---------------------------------------------------------------------------------------------------------------------|----------------------|
| EU. EINECS                                                                                                          | y (positive listing) |
| 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) | 1999 lbs |
|--------------------------------------------------|----------|

Reportable quantity-Components

|         |          |          |
|---------|----------|----------|
| TOLUENE | 108-88-3 | 1000 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)

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