



# 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  
Product Code  
Product Use or Description

**Compliant Cleaning Solvent**  
**150190, 150192, 150196**  
No Data

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Appearance: Liquid, Water-White

**DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION.**

### 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:** Unlikely to cause skin irritation or injury.

**Ingestion:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**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, lung (for example, asthma-like conditions), blood-forming system.

**Symptoms:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, coma.

**Target Organs:** This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities.

**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:** 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
Acetone	67-64-1	90-100%
Parachlorobenzotrifluoride (PCBTF)	98-56-6	>=0%-<1%
Mixed Xylene	1330-20-7	>=0%-<1%
Ethylbenzene	100-41-4	>=0%-<1%
Toluene	108-88-3	>=0%-<1%
Isopropyl alcohol	67-63-0	>=0%-<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:** First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

**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:** This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion.

**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.

**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

<b>Acetone</b>		<b>67-64-1</b>
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>
<b>Parachlorobenzotrifluoride (PCBTF)</b>		<b>98-56-6</b>
Contains no substances with occupational exposure limit values.		
<b>Mixed Xylenes</b>		<b>1330-20-7</b>
ACGIH	8-hour, time-weighted average	100 ppm
ACGIH	Short-term exposure limit	150 ppm
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m <sup>3</sup>
<b>Ethylbenzene</b>		<b>100-41-4</b>
ACGIH	8-hour, time-weighted average	100 ppm
ACGIH	Short-term exposure limit	150 ppm
NIOSH	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	100 ppm
NIOSH	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	435 mg/m <sup>3</sup>
NIOSH	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	125 ppm
NIOSH	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	545 mg/m <sup>3</sup>
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m <sup>3</sup>
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m <sup>3</sup>
OSHA	Short-term exposure limit	125 ppm
OSHA	Short-term exposure limit	545 mg/m <sup>3</sup>
<b>Toluene</b>		<b>108-88-3</b>
ACGIH	8 hr time weighted average	20 ppm
NIOSH	Time-weighted average concentration	100 ppm
NIOSH	Time-weighted average concentration	375 mg/m <sup>3</sup>



Colour	Water-white
Odour	Characteristic
Boiling point/boiling range	133 °F / 56 °C
pH	7
Flash point	0 °F / -18 °C
Lower explosion limit/Upper explosion limit	2.1 %(V) / 13 %(V)
Vapour pressure	18.530 mmHg @ 68 °F / 20 °C
Density	0.790 g/cm <sup>3</sup> 6.59 lb/gal @ 68 °F / 20 °C 68 °F / 20 °C
Water solubility	soluble
Partition coefficient: n-octanol/water	0.2
Viscosity, dynamic	0.3 mPa.s

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

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

**Incompatible Products:** Acids, alkalis, Amines, Ammonia, halogens, peroxides, Reducing agents, Strong oxidizing agents.

**Hazardous Decomposition Products:** carbon dioxide and carbon monoxide.

**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
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### Acute oral toxicity - Components

Acetone	LD50: 5,800 mg/kg Species: rat Symptoms: tremors
Parachlorobenzotrifluoride(PCBTF)	LD50: 13,000 mg/kg Species: rat
Mixed Xylenes	LD50: 4,300 mg/kg Target Organs: Kidney, Bladder
Ethylbenzene	LD50: 3,500 mg/kg Species: rat
TOLUENE	LD50: > 5,580 mg/kg Species: rat
Isopropyl alcohol	LD50: > 5,500 mg/kg Species: rat Method: OECD Test Guideline 401 Symptoms: ataxia, decreased motor activity, bradypnea

### Acute inhalation toxicity

Acute inhalation toxicity - Product	No Data Available
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### Acute inhalation toxicity - Components

Acetone	LC50: 16,000 mg/l Exposure time: 4 h Species: rat
Parachlorobenzotrifluoride(PCBTF)	LC50: 33 mg/l Exposure time: 4 h Species: rat
Mixed Xylenes	LC50: 1,700 mg/l Exposure time: 4 h
Ethylbenzene	Remarks: no data available
Toluene	LC50: 12,500 - 28,800 mg/l Exposure time: 4 h Species: Rat
Isopropyl alcohol	> 10,000 mg/l Exposure time: 6 h Species: rat Method: OECD Test Guideline 403 Symptoms: ataxia, labored breathing, decreased activity and muscle tone, decreased motor activity, depression

### Acute dermal toxicity

Acute inhalation toxicity - Product	No Data Available
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### Acute dermal toxicity - Components

Acetone	LD50: 7,426 mg/kg Species: guinea pig
Parachlorobenzotrifluoride(PCBTF)	No data available
Ethylbenzene	LD50: 15,433 mg/kg Species: rabbit
Toluene	LC50: 12,500 - 28,800 mg/l Exposure time: 4 h Species: Rat
Isopropyl alcohol	LD50: Method: OECD Test Guideline 402

### Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration)	No Data Available
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## 12. ECOLOGICAL INFORMATION

### Biodegradability

Biodegradability - Product	No Data Available
Biodegradability - Components	
Acetone	Remarks: Readily biodegradable
Parachlorobenzotrifluoride(PCBTF)	anaerobic 64 %
Mixed Xylenes	72%
Ethylbenzene	Result: Readily biodegradable.
Isopropyl alcohol	LD50: Method: OECD Test Guideline 402

### Bioaccumulation

Bioaccumulation - Product	No Data Available
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### Ecotoxicity effects

#### Toxicity to fish

Toxicity to fish - Product	No Data Available
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#### Toxicity to fish - Components

Acetone	LC50: 6,100 mg/l Exposure time: 48 h Species: Oncorhynchus mykiss (rainbow trout)
Parachlorobenzotrifluoride(PCBTF)	LC50: 5.6 mg/l Exposure time: 96 h
Mixed Xylenes	Remarks: no data available
Ethylbenzene	LC50: 88 mg/l Exposure time: 96 h
Toluene	LC50: 7.63 mg/l LC50: 7.63 mg/l Species: Oncorhynchus mykiss (rainbow trout)
Isopropyl alcohol	No Data Available

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

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

Acetone	EC50: 7,630 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: Acetone
Parachlorobenzotrifluoride(PCBTF)	No Data Available
Mixed Xylenes	EC50: 75.49 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea)
Ethylbenzene	EC50: 2.9 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toluene	EC50: 8.0 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea)
Isopropyl alcohol	No Data Available

#### Toxicity to algae

Mixed Xylenes	EC50: 4.36 mg/l Exposure time: 73 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes
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	Test Type: Growth inhibition
Ethylbenzene	EC50: 3.6 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (green algae) Analytical monitoring: yes Method: Static
TOLUENE	EC50: 10 mg/l Exposure time: 24 h Species: Pseudokirchneriella subcapitata (green algae)

**Toxicity to Bacteria**

Compliant 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
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**U.S. DOT - ROAD**

U.N. 1090	Acetone	3				II	
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**U.S. DOT - RAIL**

U.N. 1090	Acetone	3				II	
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**U.S. DOT - INLAND WATERWAYS**

U.N. 1090	Acetone	3				II	
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**TRANSPORT CANADA - ROAD**

U.N. 1090	Acetone	3				II	
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**TRANSPORT CANADA - RAIL**

U.N. 1090	Acetone	3				II	
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**TRANSPORT CANADA - INLAND WATERWAYS**

U.N. 1090	Acetone	3				II	
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

U.N. 1090	Acetone	3				II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

U.N. 1090	Acetone	3				II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

U.N. 1090	Acetone	3				II	
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

U.N. 1090	Acetone	3				II	
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\*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.

BENZENE

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

BENZENE

Acute Health Hazard

### New Jersey RTK Label Information

Acetone	67-64-1
Parachlorobenzotrifluoride (PCBTF)	98-56-6
m-Xylene	108-38-3
Ethylbenzene	100-41-4
p-Xylene	106-42-3
o-Xylene	95-47-6
TOLUENE	108-88-3
Isopropyl alcohol	67-63-0

### Pennsylvania RTK Label Information

Acetone	67-64-1
Parachlorobenzotrifluoride (PCBTF)	98-56-6
m-Xylene	108-38-3
Ethylbenzene	100-41-4
p-Xylene	106-42-3
o-Xylene	95-47-6
TOLUENE	108-88-3
Isopropyl alcohol	67-63-0

### Notification status

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

### Reportable quantity - Product

5000/lbs

US. EPA CERCLA Hazardous Substances (40 CFR 302)

### Reportable quantity-Components

67-64-1

5000/lbs

Acetone

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

## 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).