



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 Acetone
Product Code 105071, 105072, 105073, 105074
Product Use or Description 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%

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 (CO₂), 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

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 ³
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 ³
OSHA	8-hour time weighted average	750 ppm
OSHA	8-hour time weighted average	1,800 mg/m ³
OSHA	8-hour time weighted average	1,000 ppm
OSHA	8-hour time weighted average	2400 mg/m ³

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 resistant gloves (consult your safety equipment supplier).

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
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 ³ 6.59 lb/gal @ 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
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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
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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
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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
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Biodegradability - Components

Acetone	Remarks: Readily biodegradable
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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)
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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
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Species: Daphnia magna (Water flea)
Test substance: Acetone

Toxicity to algae

Acetone No Data Available

Toxicity to Bacteria

Acetone 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. 1090 Acetone 3 II

U.S. DOT - RAIL

U.N. 1090 Acetone 3 II

U.S. DOT - INLAND WATERWAYS

U.N. 1090 Acetone 3 II

TRANSPORT CANADA - ROAD

U.N. 1090 Acetone 3 II

TRANSPORT CANADA - RAIL

U.N. 1090 Acetone 3 II

TRANSPORT CANADA - INLAND WATERWAYS

U.N. 1090 Acetone 3 II

INTERNATIONAL MARITIME DANGEROUS GOODS

U.N. 1090 Acetone 3 II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

U.N. 1090 Acetone 3 II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

U.N. 1090 Acetone 3 II

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

U.N. 1090 Acetone 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.	BENZENE
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WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	BENZENE
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SARA Hazard Classification**SARA 311/312 Classification**

Fire Hazard

Acute Health Hazard

New Jersey RTK Label Information

Acetone 67-64-1

Pennsylvania RTK Label Information

Acetone 67-64-1

Notification status

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

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302) 5000/lbs

Reportable quantity-Components

Acetone 67-64-1 5000/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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