

SAFETY DATA SHEET

ACETONE

2018

SMARK COMPANY

8636 OTIS ST. SOUTH GATE CA 90280

TEL: (323)268-8184 FAX: (323)268-8158

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Product Name: Acetone **Revision Date: 2018**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY:

ACETONE

SYNONYMS:

2-PROPANONE, DIMETHYL KETONE, DIMETHYLFORMALDEHYDE, DIMETHYLKETAL, BETA-KETOPROPANE

COMPANY IDENTITY:

SMARK CHEMICALS

COMPANY ADDRESS:

8636 OTIS ST

COMPANY CITY: COMPANY PHONE: SOUTH GATE CA 90280 1-323-268-8184

FAX:

1-323-268-8158

EMERGENCY NUMBER (CHEMTREC): 1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATIONS:

HMIS Rating (Product as packaged):

	HMIS
HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

RATING CHART:

0=Minimal

1=Slight

2=Moderate 3=Serious

4=Extreme

F=Splash proof Safety glasses, Butyl gloves, synthetic apron, NIOSH Respirators.

Hazard Symbol:





Signal Word: Danger

PRECAUTIONARY INFORMATION

DANGER: Highly flammable liquid. Eye injury. Skin irritant. Toxic by inhalation/toxic by ingestion. May cause nausea and dizziness. May cause central nervous system effect.

Primary Routes of Exposure: Inhalation, ingestion, skin, and eye contact.

HAZARD CLASSIFICATION

Acute Effects: Central nervous system depression is the most common effect, resembling intoxication by ethyl alcohol. Excitation is followed by impaired motor coordination, slurred speech, sensory disturbances such as double vision and vertigo, flushing of the face, rapid pulse, and sweating. Nausea and vomiting are common. Other symptoms include dryness of the mouth and throat, headache, sleepiness, dizziness, light-headedness, weakness, and loss of energy. Very high exposures may cause unconsciousness, coma, or death. Kidney toxicity may occur but is rare following acute exposure. Post-alcoholic headache and gastritis are common in recovery. Inhalation exposure may cause lung irritation and cough. Skin contact may result in redness, irritation, and dermatitis since acetone has a drying effect on the skin. Contact with eves can result in irritation and eve injury.

Chronic Effects: Irritation of the eyes, nose, and throat are the most common problems associated with chronic exposure to acetone. Central nervous system effects such as dizziness and sleepiness can occur, as can dryness, irritation, and inflammation of the skin.

Carcinogenic: Acetone is not considered carcinogenic by OSHA, NIOSH, NTP, IARC or EPA.

Potential Adverse Chemical Interactions: Acetone may increase the toxicity to the liver and kidney of chemicals such as ethanol, 1, 2-dichloroethylene, and chloroform. Humans with liver or kidney disease may be at increased risk due to this potentiation effect.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

 COMPONENT:
 Acetone

 CHEMICAL FORMULA:
 CH3COCH3

 CAS NUMBER:
 67-64-1

 CAS NAME:
 2-Propanone

 Wt. %:
 > 99.5.

SECTION 4. FIRST AID MEASURES

Inhalation: If victim is overcome, remove to fresh air and call a physician. If breathing is irregular or has stopped, administer artificial respiration. Keep the

affected person warm and at rest. Get medical attention as soon as possible.

Skin Contact: Wash thoroughly with water. If clothing is contaminated, promptly remove clothing and wash the skin with soap and water for at least 15 minutes.

Get medical attention promptly. If systemic effects are observed, first aid procedures are the same as above for inhalation.

Eye Contact: Immediately flush eyes with room temperature water for at least 15 minutes, occasionally lifting the lower and upper lids. Consult an

ophthalmologist without delay.

Ingestion: If victim has swallowed large amounts and is conscious and not convulsing, induce vomiting (30 ml syrup of lpecac for adults, one or two doses)

and call a physician promptly. Induction of vomiting should only be considered if it can be performed soon after ingestion due to the potential for

acetone to cause CNS depression and subsequent aspiration. Never give fluids to an unconscious person.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: -17°C (closed cup)

Flammable Limits (% By Vol.)

Lower Explosive Limit (LEL): 2.6 Upper Explosive Limit (UEL): 12.8

Autoignition Temperature: 869°F

Fire Fighting Procedures/Fire Extinguishing Media:

Keep unnecessary people away; isolate hazard area and deny entry. Avoid breathing vapors, stay upwind. Do not enter fire area without structural firefighter's protective equipment including NIOSH approved self-contained breathing apparatus in positive pressure mode. Use water spray to knock down vapors. Use carbon dioxide extinguishers or dry powder for small fires. Large fires are best controlled by alcohol foam, fog, and water spray. Use water spray to cool containers exposed to acetone fires. Stay away from ends of tanks.

Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Isolate for 2 mile in all directions if tank, rail car, or tank truck is involved in fire. Acetone - water solutions containing more than 2.0 wt.% acetone will flash at less than 38°C, and should be considered flammable

Unusual Fire and Explosion Hazards:

Dangerous fire hazard when exposed to heat, sparks, flame, or oxidants.

Acetone is extremely flammable and its vapors form explosive mixtures with air. Acetone containers may explode in heat of fire. Vapors of acetone are heavier than air, and may travel considerable distance to a source of ignition and flash back. Do not use a direct stream of water on acetone fires, as direct water streams have a tendency to spread acetone fires. Water solutions of acetone may still be flammable because of released vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Shut off all ignition sources. No smoking or flares allowed in the spill area. Restrict access to the spill area, and move unprotected personnel upwind of the area. Allow only trained personnel wearing appropriate protective clothing and self-contained breathing apparatus in the vicinity of the spill. Prevent acetone from entering water bodies, drains or any sewage collection systems. For small spills, take up with sand or other absorbent material and place into containers for later disposal. Control large spills by diking. Dispose spill material in accordance with federal, state, and local regulations.

Acetone spills over the reportable quantity (5,000 lbs.) must be reported to the National Response Center (800-424-8802).

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SECTION 7. HANDLING AND STORAGE

Storage: Store in a well-ventilated place, away from sources of ignition and direct sunlight and in accordance with 29 CFR 1910.106. Acetone should be stored in drums or storage containers made from non-flammable materials. Store away from plastics, oxidizing materials, mineral acids, and chloroform. Store acetone in an area equipped with automatic sprinklers or fire extinguishing system. All acetone storage and transfer equipment should be electrically grounded and bonded to prevent possible ignition from static sparks. Use spark resistant equipment to store acetone. Do not use air pressure to unload acetone from containers. Containers of this material may be hazardous when empty. Since emptied containers retain product residues, assume emptied containers to have the same hazards as full containers. Wear appropriate protective equipment when handling acetone. Follow all federal, state, and local regulations as well as allinsurance codes when storing and handling acetone.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Respiratory Protection: Use appropriate NIOSH approved respirators in accordance with 29 CFR 1910.132 and 1910.134, to prevent overexposure. Respirators must be selected based on the airborne levels found in the workplace and must not exceed the working limits of the respirator.

Ventilation: Provide local ventilation to maintain exposure levels below recommended exposure limits. Use explosion proof ventilation equipment. Local exhaust ventilation should comply with OSHA regulations and the American Conference of Governmental Industrial Hygienists, Industrial Ventilation - A Manual of Recommended Practice.

Eye Protection: Use splash proof chemical safety goggles. Follow the eye and face protection guidelines of 29 CFR 1910.132 and 1910.133. Where there is any possibility that individual's eyes may be exposed to acetone, an eye wash fountain (in accordance with 29 CFR 1910.151) should be within the immediate work area for emergency use.

Protective Gloves: Use butyl or neoprene gloves.

Occupational Exposure Guidelines for Acetone

OSHA	PEL-TWA	750 ppm
ACGIH	TLV-TWA	500 ppm (NIC 200 ppm)
	TLV-STEL	750 ppm (NIC 500 ppm)
NIOSH	REL-TWA	250 ppm
	IDLH	2500 ppm

*NIC - TLV Notice of Intended Changes

Other: Where there is a possibility of exposure of an individual's body to acetone, facilities for quick drenching of the body should be provided (in accordance with 29 CFR 1910.151) within the immediate work area for emergency use. Such individuals should be provided with and required to use impervious clothing in accordance with 29 CFR 1910.132

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

MOLECULAR WEIGHT:

BOILING POINT:

FREEZING POINT:

SOLUBILITY:

SPECIFIC GRAVITY (WATER = 1.0): VAPOR DENSITY (AIR = 1.0):

VAPOR PRESSURE:

pH:

Colorless liquid

Pungent, sharp ketone odor

58.09

56.1 °C/-133 °F

-95.35 °C/-138 °F

Completely miscible in water; miscible in alcohol, chloroform, dimethylformamide,

ethers, and most oils 0.7910 - 0.7930 at 20°/20° C

2.00

185 mm Hg at 20° C

Approximately 7 in 1/1 volume with water

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SECTION 10. STABILITY & REACTIVITY

Stability: Stable under normal conditions, will not polymerize

Polymerization: Hazardous polymerization does not occur

Hazardous Decomposition Products: Combustion yields carbon dioxide and carbon monoxide

Incompatible Materials: Acids and strong oxidizing materials

SECTION 11. TOXICOLOGICAL INFORMATION

The following information on acetone is extracted from both the TOXNET and RTECS databases.

Animal Toxicity

Oral: Dog LD50: 8g/kg

Rat LD50: 5.8 g/kg

Human TDI O. 2.9 n/kn (coma)

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Dermal: Rabbit LD50: 20 g/kg:

Inhalation: Mouse LC50: 46,420 ppm (62 min)

Rat LC50: 21,142 ppm (8 hr)

Human TCLO: 500 ppm for eye and throat irritation

TCLO = Lowest air concentration that is toxic to a given species.

 LC_{50} = Air concentration that is lethal to 50% of a given species in a given period of time.

LD₅₀ = Dose that is lethal to 50% of a given species by a given route of exposure.

TDLo = Lowest dose that is toxic to a given species.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: The following information on acetone is extracted from the TOXNET database maintained by the National Library of Medicine.

Atmosphere: Based on an experimental vapor pressure of 231 mm Hg at 25 deg C, acetone is expected to exist solely as a vapor in the ambient atmosphere. Vaporphase acetone is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals with an estimated atmospheric half-life of 71 days. Acetone also undergoes photodecomposition by sunlight with an estimated half-life of about 80 days.

Terrestrial: Acetone is expected to have very high mobility in soils based upon an estimated Koc value of 1. Volatilization from dry soil surfaces is expected based upon the vapor pressure of this compound. Volatilization from moist soil surfaces is also expected based upon the measured Henry's Law constant of 1.87x 10-5 atm-cu m/mol.

Aquatic: In water, acetone is not expected to adsorb to suspended solids or sediment based upon its estimated Koc value. Volatilization from water surfaces is expected to be an important environmental fate process given its estimated Henry's Law constant. Estimated half-lives for a model river and model lake are 38 and 333 hours, respectively. Experimentally determined volatilization half-lives in a shallow stream were measured in the range of 8-18 hours.

Biodegradation: This compound is expected to biodegrade under aerobic and anaerobic conditions.

Ecotoxicity:

LC50 Daphnia magna 10 mg/L 24 to 48-Hr

LC50 Lepomis macrochirus (bluegill sunfish) 8,300 mg/L 96 hr

LC50 Salmo Gairdneri (Rainbow Trout) 5.540 mg/L/96 hr @ 12 deg C (95% Confidence Limit 4,740-6,330 mg/L), wt. 1.0 g

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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Management Information: Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules). Waste characterization and compliance with applicable laws are the responsibility of the waste generator.

SECTION 14. TRANSPORT INFORMATION

Proper Shipping Name:

Acetone

DOT Hazard Class:

3, (Flammable liquid)

DOT Shipping ID No.: DOT Labeling:

UN 1090 Flammable liquid

Packing Group: Placard: RQ:

PG II Flammable 5,000 lbs.

SECTION 15. REGULATORY INFORMATION

Regulatory information is not meant to be all-inclusive. It is the user's responsibility to ensure compliance with federal, state or provincial and local laws.

Title III Section 302 and 304 of the Act; Extremely Hazardous Substances (40 CFR 355)

COMPONENT

CAS No.

TPQ (lbs) Not Applicable

RQ (lbs) Not Applicable

None

Not Applicable Note: TPQ - Threshold Planning Quantity, RQ - Reportable Quantity

Specific state and local regulations regarding reportable quantities should be reviewed prior to chemical use, as they may differ from the federal reportable quantity requirement as stated above.

Section 311 Hazard Categorization (40 CFR 370)

ACUTE CHRONIC

FIRE

PRESSURE

REACTIVE

Section 313 Toxic Chemicals (40 CFR 372.65)

COMPONENT

CAS No. Not Applicable **WT** %

None **CERCLA**

Acetone

CERCLA Section 102(a) Hazardous Substances (40 CFR 302.4)

COMPONENT CAS No.

67-64-1

WT % > 99.5

RQ (lbs) 5.000

Not Applicable

RCRA

Commercial or technical grade acetone hat is disposed of because it does not meet product specifications or is otherwise contaminated would be regulated as both a listed and characteristic hazardous waste. The waste code for commercial chemical product acetone is U002. Discarded off-specification or contaminated acetone would also likely exhibit the hazardous waste characteristic for ignitability. The waste code for ignitable waste is D001.

Acetone is listed on the TSCA inventory.

Canadian Regulations

This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33 and the MSDS contains all information required by this regulation. WHMIS Classification- Class B, Division 2

WHMIS Ingredient Disclosure List

Acetone

CAS 67-64-1

Cutoff- 1%

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SECTION 15. REGULATORY INFORMATION (CONTINUED)

CA Proposition 65

Acetone is not on the State of California's list of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity (the "proposition 65 list).

Canadian Environmental Protection Act (CEPA)

All substances in this product are listed on the Canadian Domestic Substances (DSL) list or are not required to be listed.

European/International Regulations:

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product are listed on the European Inventory of Existing Commercial Chemical Substances.

European Labeling in Accordance with EC Directives

Hazard Symbols

XI: Irritant

F: Highly Flammable

Risk Phrases

R 11: Highly flammable. R 36: Irritating to eyes.

R 66: Repeated exposure may cause skin dryness or cracking.

R 67: Vapours may cause drowsiness and dizziness.

Safety Phrases

S 9: Keep container in a well-ventilated place.

S 16: Keep away from sources of ignition - No smoking.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16. OTHER INFORMATION

MANUFACTURER DISCLAIMER:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

APPROVED BY: Safety And Environmental Department. PREPARED BY: Safety And Environmental Department. ADDITIONAL MSDS INFORMATION: New (SDS)

DATE OF PREPARATION OR LAST REVISION: March, 2018.