

Safety Data Sheet

Acetone, ACS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acetone, ACS

Synonyms/Generic Names: Dimethyl Ketone; Ketone Propane; 2-Propanone

Product Number: 0105

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Flammable liquid, Target organ effect, Irritant

Target Organs: Liver, Kidney, Eyes, Skin, Respiratory system, Central nervous system.

Signal Words: Danger

Pictograms:



GHS Classification:

Flammable liquids	Category 2
Skin irritation	Category 3
Eye irritation	Category 2A
Specific target organ toxicity – single exposure	Category 3

GHS Label Elements, including precautionary statements:

Hazard Statements:

H225	Highly flammable liquid and vapor
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Precautionary Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

Potential Health Effects

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness or dizziness. Can cause irritation of mucous membranes and central nervous system depression.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	2
Flammability	3
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	3
Reactivity	0
Personal	H

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Acetone	100	67-64-1	200-662-2	C ₃ H ₆ O	58.08 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide when fighting fires involving this material. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self contained breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Emits toxic fumes under fire conditions. (Carbon oxides) (See also Stability and Reactivity section). Vapors can travel to a source of ignition and flash back. Containers may explode in a fire. Cool containers from a distance using water spray. SENSITIVE TO STATIC DISCHARGE.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use. Avoid contact with skin and eyes. Avoid inhalation. Use explosion-proof equipment. Keep away from sources of ignition. No smoking. Take measure to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in tightly closed, original containers in a cool, dry, well ventilated area. Store between 55-100°F for product stability. Do not store with strong oxidizing agents, strong bases, reducing agents, phosphorus oxychloride.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Acetone	2400 mg/m ³	PEL	OSHA
	1188 mg/m ³	TLV	ACGIH
	590 mg/m ³	REL	NIOSH
	2500 ppm	IDLH	OSHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

Personal Protection

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid
Odor	Mild alcohol. Fruity. Mint-like. Fragrant.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	-94°C (-137°F)
Initial boiling point and boiling range	56°C (133°F)
Flash point	-17°C (1°F) Closed Cup
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	LEL:2% UEL:13%
Vapor pressure	184 mmHg
Vapor density	2.0
Relative density	Not Available
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Log Pow: -.024
Auto-ignition temperature	465°C (869°F)
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat, flame, sparks
Incompatible Materials	Strong bases, oxidizing agents, phosphorus oxychloride
Hazardous Decomposition Products	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	LD50 Dermal – guinea pig – 7,426 mg/kg.
Eyes	Eyes – rabbit – Eye irritation – 24 hours
Respiratory	LC50 Inhalation – rat – 8 hours – 50,100 mg/m ³ .
Ingestion	LD50 Oral – rat – 5,800 mg/kg.

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Burning, itching, redness, may be harmful if absorbed through skin.
Eyes	Redness, excessive blinking and watering eyes.
Respiratory	Coughing, wheezing, headache, disorientation, blurred vision, dizziness, fatigue or nausea.
Ingestion	May be harmful if swallowed. Nausea, vomiting, may cause blindness and central nervous system depression.

Chronic Toxicity	Not Available.
Teratogenicity	Not Available.
Mutagenicity	Not Available.
Embryotoxicity	Not Available.
Specific Target Organ Toxicity	Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 – Oncorhynchus mykiss (Rainbow trout) – 5549 mg/l – 96 hours
Aquatic Invertebrate	EC50 – Daphnia magna (Water flea) – 13500.00 mg/l – 48 hours
Terrestrial	Not Available.

Persistence and Degradability	Not Available.
Bioaccumulative Potential	Not Available.
Mobility in Soil	Not Available.
PBT and vPvB Assessment	Not Available.
Other Adverse Effects	Not Available.

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORT INFORMATION

US DOT	UN1090, Acetone, 3, pg II
TDG	UN1090, ACETONE, 3, pg II
IDMG	UN1090, ACETONE, 3, pg II
Marine Pollutant	No
IATA/ICAO	UN1090, Acetone, 3, pg II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed.
SARA 302	Listed: Acetone
SARA 304	Listed: Acetone
SARA 311	Acetone
SARA 312	Acetone
SARA 313	Not Listed
WHMIS Canada	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2B: Material causing other toxic effects (VERY TOXIC).

16. OTHER INFORMATION

Revision	Date
Revision 1	07-13-2011
Revision 2	07-06-2012

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