Acetone



Section 1 Product Description

Product Name: Acetone

Recommended Use: Science education applications

Synonyms: Dimethyl Ketone; , Ketone Propane; , 2-Propanone

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER





Highly flammable liquid and vapor. Causes serious eye irritation. Toxic to aquatic life.

GHS Classification:

Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2

Acute Toxicity Dermal Contains

Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Acetone
 67-64-1
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may

explode.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Acetone Page 1 of 4

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7 Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bo

nd container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Avoi

d release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

 ACGIH
 OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Acetone
 500 ppm TWA
 750 ppm STEL
 1000 ppm TWA;
 N/A

2400 mg/m3 TWA

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9 Physical Data

Formula: CH3COCH3

Molecular Weight: 58.05

Appearance: Liquid

Odor: No data available

Vapor Pressure: 233 hPa at 20 °C

Evaporation Rate (BuAc=1): 14.4

Vapor Density (Air=1): 2.0

Specific Gravity: 0.787 at 25 °C

Odor Threshold: No data available

pH: No data available

big Pow (calculated): -0.24

Control of the short o

Melting Point: No data available

Boiling Point: 56 C

Autoignition Temperature: No data available
Decomposition Temperature: No data available

Flash Point: -20 C Viscosity: No data available
Flammable Limits in Air: LEL: 2.6% - UEL: 12.8 % Percent Volatile by Volume: 100%

Section 10 Reactivity Data

Reactivity: Mildly reactive - See below **Chemical Stability:** Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other

sources of ignition.

Incompatible Materials: Caustics (bases), Peroxides, Strong acids, Oxidizing materials, Halogens

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Acetone Page 2 of 4

Section 11 **Toxicity Data**

Inhalation, Ingestion, and Skin contact. **Routes of Entry**

Symptoms (Acute): Eye disorders

Delayed Effects: Central Nervous System Disorders

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50 Acetone 67-64-1 ORAL LD50 Rat Dermal LD50 Inhalation LC50 5800 mg/kg Rabbit 20000 (8h) Rat 50.1

mg/kg

MG/L

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA Acetone 67-64-1 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: Evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect. Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Cardiovascular system

Chronic: Male Reproductive System

Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Persistence: No data

Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l Acetone 67-64-1

96 HR LC50 LEPOMIS MACROCHIRUS 8300 MG/L 48 HR EC50 DAPHNIA MAGNA 12600 - 12700 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1090 UN1090 **ACETONE ACETONE** Class 3 Class 3 P.G. II P.G. II

Section 15 **Regulatory Information**

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)**

> Number TQ

67-64-1 No 5000 lb final Acetone Nο Nο No

RQ; 2270 kg final RQ

Acetone Page 3 of 4

Section 16 Additional Information

Revised: 04/01/2013 Replaces: 12/19/2012 Printed: 05-30-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act

IDLH

Immediately dangerous to life and health

Acetone Page 4 of 4