Acetone

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Section 1

Product Description

Product Name: Recommended Use: Synonyms: **Distributor:**

Acetone Science education applications Dimethyl Ketone; , Ketone Propane; , 2-Propanone Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

DANGER

Section 2



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 Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Acetone	67-64-1	100
Section 4	First Aid Measures	

Section 4

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: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explo Hazardous Comb	osion Hazards: oustion Products:	explode.				
Section 6	ction 6 Spill or Leak Procedures					
Steps to Take in Released or Spill	in Case Material Is Exposure to the spilled material may be irritating or harmful. Follow personal protective				cautions may be the material spilled, the expertise of environment if safe the the the the sposal evaluation.	
Section 7		Handling ar	nd Storage			
Handling:	Ground/bond 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. Avoid release to the environment. Wear protective gloves/protective clothing/eye				ting// e. Wash	
Storage:	 protection/face protection. torage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed in a co well-ventilated place. 				y closed in a cool,	
Storage Code:		s. Store in approved flammab	le containers. Store av	way from oxidizing materia	als.	
Section 8		Protection I	nformation			
Chemical Name Acetone		<u>ACG</u> (TWA) 500 ppm TWA	IIH (STEL) 750 ppm STEL	<u>OSHA P</u> (TWA) 1000 ppm TWA; 2400 mg/m3 TWA	PEL (STEL) N/A	
Control Parameter Engineering Mea Personal Protect Respiratory Prote Eye Protection:	sures: ive Equipment (PPE)	might be required to ma Lab coat, apron, eye wa No respiratory protectio Wear chemical splash o	aintain operator comfo ash, safety shower. on required under norn	of this product. General ro rt under normal conditions nal conditions of use. g this product. Have an ey	s of use.	
Skin Protection: Gloves:		available. 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. No information available				
Section 9		Physica	al Data			
Formula: CH3CO Molecular Weigh Appearance: Liq Odor: No data ava	t: 58.05 uid		Vapor Pressure: 233 Evaporation Rate (B Vapor Density (Air= Specific Gravity: 0.7 Solubility in Water:	BuAc=1): 14.4 1): 2.0 787 at 25°C		

Solubility in Water: Soluble Log Pow (calculated): -0.24

Viscosity: No data available

Reactivity Data

Percent Volatile by Volume: 100%

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Acetone

Section 10

pH: No data available

Boiling Point: 56 C

Flash Point: -20 C

Odor Threshold: No data available

Flammable Limits in Air: LEL: 2.6% - UEL: 12.8 %

Melting Point: No data available

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		Mildly reactive - See below Stable under normal conditions. Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Caustics (bases), Peroxides, Strong acids, Oxidizing materials, Halogens Carbon dioxide, Carbon monoxide Will not occur					
Section 11		Toxicit	y Data				
Routes of Entry Symptoms (Acute): Delayed Effects:	Eye disorders	stion, and Skin contact. System Disorders					
Acute Toxicity: Chemical Name Acetone		CAS Number 67-64-1	Oral LD50 Oral LD50 Mouse 3000 mg/kg	Dermal LD50 Dermal LD50 Rabbit 20000 mg/kg	Inhalation LC50 Inhalation LC50 (8h) Rat 50.1 MG/L		

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

No evidence of a mutagenic effect.

No evidence of a sensitization effect.

Male Reproductive System

Evidence of a teratogenic effect (birth defect).

Central Nervous System, Cardiovascular system

CAS Number

67-64-1

Evidence of negative reproductive effects.

Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:

Section 12

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. This material is expected to have very high mobility in soil. It does not absorb to most soil types. No data Bioconcentration is not expected to occur. Biodegrades quickly. No data

Chemical Name Acetone

Section 13

Disposal Information

Transport Information

Eco Toxicity

Ecological Data

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l

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

Waste Disposal Code(s):

Section 14

Ground - DOT Proper Shipping Name:

UN number: 1090 Class: 3 Packing group: II Proper shipping name: Acetone Reportable Quantity (RQ): 5000 lbs Marine pollutant: No Poison Inhalation Hazard: No

Air - IATA Proper Shipping Name:

UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D Proper shipping name: ACETONE

Section 15		Regulatory Information				
TSCA Status:	All com	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetone	67-64-1	No	No	5000 lb final RQ; 2270 kg final RQ	No	No

Section 16

Additional Information

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-11-2014

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