Acetone Alcohol



Section 1

Product Description

Product Name: Acetone Alcohol

Recommended Use: Science education applications

Synonyms: None known

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

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. Toxic in contact with skin. Causes serious eye irritation. Causes damage to organs. Toxic to aquatic life.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Dermal Category 3

Other Safety Precautions: IF exposed: Call a POISON CENTER or doctor/physician.

Acute Toxicity Oral Contains 60.1825 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Dermal Contains** 90.1825 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Inhalation Vapor** 90.1825 % of the mixture consists of ingredient(s) of unknown toxicity **Contains**

Acute Toxicity Inhalation Dust/Mist

Contains

90.1825 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Ethanol	64-17-5	60.18
Acetone	67-64-1	30
Water	7732-18-5	3.5
2-Propanol	67-63-0	3.33
Methanol	67-56-1	2.99

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.

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

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

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

water/shower. IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all

contaminated clothing. Wash contaminated clothing before reuse.

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

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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

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. Ventilate the contaminated area.

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/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid 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. Store locked up. Keep container tightly

closed in a cool, well-ventilated place.

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

Section 8

Protection Information

	ACC	<u>GIH</u>	<u>OSHA PEL</u>	
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A
			1900 mg/m3 TWA	
Acetone	500 ppm TWA	750 ppm STEL	1000 ppm TWA;	N/A
			2400 mg/m3 TWA	
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980	N/A
			mg/m3 TWA	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260	N/A
			mg/m3 TWA	

Control Parameters

Eve Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

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

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory 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 data available

Section 9

Physical Data

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Formula: N/A

Molecular Weight: No data available Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Fruity Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: Estimated 56 C Flash Point: Estimated -20 C

Flammable Limits in Air: No data available

Vapor Pressure: No data available Evaporation Rate (BuAc=1): > 1 Vapor Density (Air=1): > 1

Specific Gravity: N/A Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: 96.5%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

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: Organic Peroxides, Strong acids, Oxidizing materials, Caustics (bases), Peroxides,

Halogens, Water-reactive materials

Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, Ingestion, and Skin contact.

Symptoms (Acute): Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, Eye disorders, Respiratory

disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	67-64-1	Oral LD50 Mouse 3000 mg/kg	Dermal LD50 Rabbit 20000 mg/kg	Inhalation LC50 (8h) Rat 50.1 MG/L
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
Acetone	67-64-1	Not listed	Not listed	Not listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Cardiovascular system, Eyes
Chronic: Male Reproductive System, No information available, Eyes

Section 12 Ecological Data

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

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Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Biodegradation, Evaporation into atmosphere Bioaccumulation: Bioconcentration is not expected to occur.

Degradability: Biodegrades quickly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] Ethanol 64-17-5 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L Acetone 67-64-1 96 HR LC50 LEPOMIS MACROCHIRUS 8300 MG/L 96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l 48 HR EC50 DAPHNIA MAGNA 12600 - 12700 MG/L Water 7732-18-5 No data available 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 2-Propanol 67-63-0 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L Methanol 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 67-56-1

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): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14

Transport Information

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

UN1993 UN1993

Flammable Liquid, N.O.S. (Acetone, Ethanol) Flammable Liquid, N.O.S. (Acetone, Ethanol)

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 Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
Acetone	67-64-1	No	No	5000 lb final RQ; 2270 kg final RQ	No	No
2-Propanol	67-63-0	No	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 08/27/2014 Printed: 09-11-2014

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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.

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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

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