

MATERIAL SAFETY DATA SHEET

LAB GRADE 100%
CAROLINA BIOLOGICAL

Revised: 10/13/09
Replaces: 05/15/08
Printed: 03/06/10

1. PRODUCT DESCRIPTION

Product Name: Acetone, Lab Grade
Product Code(s): 84-1481, 84-1483, BM6010, GEO6232
Size: 120ml, 500ml, 1 gal
Chemical Name: Acetone
CAS Number: 67-64-1
Formula: CH₃COCH₃
Synonyms: Dimethyl Ketone, Ketone Propane, 2-Propanone, Cleaning Fluid
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Acetone (67-64-1) 100%
TLV and PEL units: ACGIH-TLV 500 ppm TWA, 750 ppm STEL
OSHA-PEL 1000 ppm TWA

3. HAZARD IDENTIFICATION

Emergency Overview: Flammable liquid and vapor. Harmful if swallowed or inhaled.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): -20°C (-4°F) (Closed Cup)

NFPA Rating: Health: 1
Fire: 3
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: 2.6 LEL 12.8 UEL

Autoignition Temperature: 465°C (869°F)

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Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Vapor may travel distances to ignition sources.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store in a tightly closed container in a cool place. Keep away from ignition sources.

Other Precautions: Retained residue may make empty containers hazardous.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred

Mechanical(General): Accepted

Special: No

Other: No

Protective Gloves:

Rubber, Butyl or equivalent

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 58.05

Melting Point: -95°C

Boiling Point: 56°C at 760 mmHg

Vapor Pressure: 233 hPa at 20°C

Vapor Density(Air=1): 2.0

Specific Gravity(H2O=1): 0.7845 at 25°C

Percent Volatile by Volume: 100%

Evaporation Rate(BuAc=1): 14.4

Solubility in Water: Miscible

Appearance and Odor: Clear, colorless liquid; sweet, mint-like odor.

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat with ignition sources.

Incompatibility(Materials to Avoid): Acids, oxidizers, Potassium t-Butoxide, Bromine, Chlorine.

Hazardous Decomposition Products: COx

Hazardous Polymerization: Will not occur

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11. TOXICITY DATA

Toxicity Data: Oral Rat LD50: 5,800mg/kg
Effects of Overexposure:
Acute: See section 3
Chronic: Mutation and reproductive data cited. Not listed as causing cancer by IARC, NTP, or OSHA.
Conditions Aggravated by Overexposure: Respiratory, skin, and eye disorders.
Target Organs: Respiratory system, eyes, skin, and CNS.
Primary Route(s) of Entry: Inhalation, Ingestion, eye and skin contact.

12. ECOLOGICAL DATA

EPA Waste Numbers: U002

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Shipping Name: Acetone, 3, UN1090, II
Consumer commodity/ORM-D for 500 mL bottle.

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute, Chronic
SARA EHS Section 302 TPQ(lbs.) No

SARA Section 313 Chemicals

Name List: Chemical Category:
Yes No

CERCLA Section 103 RQ(lbs.): 5,000

RCRA Section 261.33: Yes

16. ADDITIONAL INFORMATION

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

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NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act