

MATERIAL SAFETY DATA SHEET

Product Name: Acetone

CAS No.: 67-64-1

Version: 01

1. Identification

Product Code : 90002, 90801, 90731, 90102, 90302, 94021, 98110
Company Name : Advent Chembio Private Limited
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E-mail : info@adventchembio.com
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Company Phone Number : 022-27690837

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetone	67-64-1	99 - 100%	Yes

3. Hazards Identification

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Serious eye damage/eye irritation : Category 2

Specific target organ toxicity - : Category 3

single exposure

Labels elements

Hazard symbol



Signal word : Danger

Hazard statement : Highly flammable liquid and vapor.
 Harmful if swallowed.
 Harmful if inhaled.
 Causes serious eye irritation.

MATERIAL SAFETY DATA SHEET**Product Name:** Acetone**CAS No.:** 67-64-1**Version:** 01**Precautionary statement****Prevention**

- : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response

- : In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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.

Storage

- : Store at room temperature below 30°C in original packing, keep container tightly closed away from source of ignition, handle at inert atmosphere.

Disposal

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

- : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

4. First Aid Measures**General information**

- : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion

- : Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation

- : Move to fresh air. Get medical attention if symptoms persist.

Skin contact

- : Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact

- : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

- : Narcotic effect.

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Indication of immediate medical attention and special treatment needed : no data available.

5. Fire Fighting Measures

General fire hazards : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media : Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical : Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

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7. Handling and Storage

- Precautions for safe handling** : DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use personal protective equipment as required. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
- Conditions for safe storage, including any incompatibilities** : Store at room temperature below 30°C in original packing, keep container tightly closed away from source of ignition, handle at inert atmosphere. Keep away from food, drink and animal feeding stuffs. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
ACETONE	TWA	500 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	750 ppm	US. ACGIH Threshold Limit Values (2011)
	TWA	200 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (2011)
	STEL	500 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (2011)
	REL	250 ppm 590 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

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	TWA	750 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing and gloves.

Respiratory protection : In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.

Hygiene measures : Provide eyewash station and safety shower. Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Avoid contact with eyes. Do not handle until all safety precautions have been read and understood. Obtain special

MATERIAL SAFETY DATA SHEET**Product Name:** Acetone**CAS No.:** 67-64-1**Version:** 01instructions
before use.**9. Physical and Chemical Properties**

Appearance	: Clear, colorless, volatile liquid
Odor	: Fragrant, mint-like
Solubility	: Miscible in all proportions in water.
Specific Gravity	: 0.79 @ 20°C/4°C
pH	: No information found.
% Volatiles by volume @ 21C (70F)	: 100
Boiling Point	: 56.5°C (133F) @ 760 mm Hg
Melting Point	: -95°C (-139F)
Vapor Density (Air=1)	: 2.0
Vapor Pressure (mm Hg)	: 400 @ 39.5°C (104F)
Evaporation Rate (BuAc=1)	: ca. 7.7
Flash Point	: -20°C

10. Stability and Reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Heat, sparks, flames.
Incompatible materials	: Oxidizers, acids
Hazardous decomposition products	: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological Information

General information	: Cyanosis may result from overexposure to vapor or skin exposure.
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Information on likely routes of exposure

Ingestion	: Harmful if swallowed.
Inhalation	: May cause irritation to the respiratory system.
Skin contact	: Causes mild skin irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	: Causes eye irritation.

Information on toxicological effects

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Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 (Rat): 5,800 mg/kg
Dermal Product	: LD 50 (Rabbit): 20,000 mg/kg
Inhalation Product	: LC 50 (Rat, 4 h): 76 mg/l
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Prolonged or repeated contact may cause irritation.
Serious eye damage/eye irritation Product	: Irritating to eyes.
Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No carcinogenic components identified
Germ cell mutagenicity	
In vitro Product	: No mutagenic components identified.
In vivo Product	: No mutagenic components identified.
Reproductive toxicity Product	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure Product	: Respiratory tract irritation. Narcotic effect.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: Not classified.
Other effects	: None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment :

Fish Product	: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5,490 - 7,030 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 8,300 mg/l Mortality.
Aquatic invertebrates Product	: LC 50 (Brine shrimp (Artemia salina), 24 h): 2,100 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 12,100 mg/l Mortality

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water (log Kow) Product**Mobility in soil** : No data available.**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.**13. Disposal consideration****Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1090	Acetone	3	II	No
IMDG	UN 1090	Acetone	3	II	No
IATA	UN 1090	Acetone	3	II	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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16. Other Information**NFPA Hazard ID**

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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