

MATERIAL SAFETY DATA SHEET**Product Name:** Isoamyl acetate**CAS No.:** 123-92-2**Version:** 0**1. Identification**

Product Code : 90431
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
ISOAMYL ACETATE	123-92-2	90-100%

3. Hazards Identification

Emergency Overview : WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM

Saf-T-Data

Health Rating : 2 - Moderate
Flammability Rating : 2 - Moderate
Reactivity Rating : 1 - Slight
Contact Rating : 2 - Moderate

Potential Health Effects

Inhalation : Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Affects central nervous system causing dizziness, in coordination and unconsciousness.

Ingestion : Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

Skin Contact : Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye Contact : Causes irritation, redness, and pain.

Chronic Exposure : Prolonged or repeated skin exposure may cause severe irritation or dermatitis.

Aggravation of Pre-existing Conditions : Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

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4. First Aid Measures

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Inhalation** : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** : If swallowed, give large quantities of water to drink and get medical attention immediately. Never give anything by mouth to an unconscious person.
- Skin Contact** : Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
- Note to Physician** : Treatment is symptomatic and supportive. Sodium sulfate can be given in case of ingestion to precipitate out the barium as barium sulfate.

5. Fire fighting measures

- Fire** : Flash point: 25°C (77F) CC
Autoignition temperature: 360C (680F)
Flammable limits in air % by volume:
lel: 1.0; uel: 7.5
- Explosion** : Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sealed containers may rupture when heated. Sensitive to static discharge
- Fire Extinguishing Media** : Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective.
- Special Information** : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for** : Sweep up and place in a clearly labeled container for chemical

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- containment and cleaning up** : waste.
Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

- Precautions for safe handling** : Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

8. Exposure Controls Personal Protection

Control parameters
Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
n-Amyl Acetate	TWA	100 ppm	OSHA
for Pentyl Acetate, all isomers	TLV	50 ppm	ACGIH
	STEL	100 ppm	ACGIH

- Ventilation System** : A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
- Personal Respirators (NIOSH Approved):** : If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:**

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	Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection	: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection:	: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and Chemical Properties

Appearance	: Clear, colorless liquid.
Odor	: Banana-like odor.
pH	: No information found
Melting point/freezing point	: -78C (-108F)
Initial boiling point and boiling range	: 143C (289F)
Flash Point	: No information found.
Vapor pressure	: 4 @ 20C (68F)
Vapor density	: 4.5 (Air=1):
Relative density	: 0.88
Solubility in water	: Slight (0.1-1%)
Solubility (other)	: No data available.
Formula	: (CH ₃) ₂ CHCH ₂ CH ₂ OOC(CH ₃)
Molecular Weight	: 130.19 g/mol

10. Stability and Reactivity

Stability	: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products	: Carbon dioxide and carbon monoxide may form when heated to decomposition
Hazardous Polymerization	: Will not occur.
Incompatibilities:	: Nitrates, strong oxidizers, strong acids, bases and reducing agents.
Conditions to Avoid:	: Heat, flames, ignition sources and incompatibles.

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11. Toxicological Information**Information on likely routes of exposure**

- Ingestion** : May cause irritation of the gastrointestinal tract.
Inhalation : May cause irritation to the respiratory system.
Skin contact : May cause irritation.
Eye contact : May cause temporary eye irritation.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

- Oral Product(Anhydrous)** : Oral rat LD50: 16,600 mg/kg.
Dermal Product : No data available.
Inhalation Product : No data available.
Repeated dose toxicity Product : No data available.
Skin corrosion/irritation Product : May cause skin irritation.
Serious eye damage/eye irritation Product : May irritate 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 DIOXANE : No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE : 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 : No components toxic to reproduction.
Specific target organ toxicity - single exposure Product : No data available.
Specific target organ toxicity - repeated exposure Product : No data available.
Aspiration hazard Product : Not classified.
Other effects : None known.

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12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment :

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment :

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : Material is expected to readily biodegrade.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : This material has an estimated bioconcentration factor (BCF) of less than 100

Partition coefficient n-octanol / water (log Kow) Product : This material has a log octanol-water partition coefficient of less than 3.0

Mobility in soil : No data available.

Other adverse effects : No data available.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. 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.

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	UN1104	AMYL ACETATES	3	III	No
IMDG	UN1104	AMYL ACETATES	3	III	No
IATA	UN1104	AMYL ACETATES	3	III	No

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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.

16. Other Information**Issue Date :**01/08/2014**Version : 0**

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