



# **Material Safety Data Sheet**

PROTECTIVE CLOTHING RISK PHRASES **HAZARD WARNINGS** Flammable liquid; avoid heat and sources of ignition. Irritating to skin, eyes, and the respiratory system.

| Section I. C     | Chemical Product and Company Identifi  | cation                  |  |
|------------------|--|-------------------------|--|
| Chemical Name    | Acetic Acid Isoamyl Ester  |                         |  |
| Catalog Number   | A0033  | Supplier                | TCI America<br>9211 N. Harborgate St.<br>Portland OR<br>1-800-423-8616 |
| Synonym          | 3-Methyl-1-butyl acetate   |                         |  |
| Chemical Formula | CH <sub>3</sub> COO(CH <sub>2</sub> ) <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub> |                         |  |
| CAS Number       | 123-92-2   | In case of<br>Emergency | Chemtrec® (800) 424-9300 (U.S.)  |
|                  |  | Call                    | (703) 527-3887 (International)   |

| Section II. Composition and Information on Ingredients |            |                     |         |  |
|--|------------|---------------------|---------|--|
| Chemical Name  | CAS Number | Percent (%)         | TLV/PEL | Toxicology Data  |
| Acetic Acid Isoamyl Ester                              | 123-92-2   | Min. 98.0<br>(GC,T) |         | Rat LD <sub>50</sub> (oral) 16600 mg/kg<br>Rabbit LD <sub>50</sub> (oral) 7422 mg/kg |

| Section III.           | Hazards Identification  |
|------------------------|---|
| Acute Health Effects   | Irritating to eyes and skin on contact. MAY BE POISONOUS if inhaled or absorbed through skin. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Severely irritating to the lungs, mucous membranes, and respiratory tract. Always wear an OSHA/MSHA approved respirator when working with this material. |
| Chronic Health Effects | CARCINOGENIC EFFECTS : Not available.   |

**CARCINOGENIC EFFECTS**: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. Toxicity to the reproductive system: Not available.

Final Aid Manana

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

| Section IV.  | First Aid Measures  |  |
|--------------|---|--|
| Eye Contact  | Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.  |  |
| Skin Contact | If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash any contaminated clothing before reusing. |  |
| Inhalation   | Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistban breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.  |  |
| Ingestion    | Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible what is causing the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Seek immediate medical attention and, if possible, show the chemical label.  |  |

| Section V.          | Fire and Explosion Data  |  |                          |  |
|---------------------|--|--|--------------------------|--|
| Flammability        | Flammable.   | Auto-Ignition  | 379°C (714.2°F)          |  |
| Flash Points        | CLOSED CUP: 33°C (91.4°F)<br>OPEN CUP: 38°C (100.4°F)            | Flammable Limits   | LOWER: 1%<br>UPPER: 7.5% |  |
| Combustion Products | These products are toxic carbon oxides                           | These products are toxic carbon oxides (CO, CO <sub>2</sub> ). |                          |  |
| Fire Hazards        | Highly flammable in presence of open flames and sparks, of heat. |  |                          |  |
|                     |  |  |                          |  |
|                     |  |  | (000) (01 0000           |  |

Continued on Next Page

Emergency phone number (800) 424-9300

A0033 Acetic Acid Isoamyl Ester Page 2 **Explosion Hazards** Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No additional information is available regarding the risks of explosion. Fire Fighting Media Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure and Instructions build-up, autoignition or explosion.

#### Section VI. Accidental Release Measures

Spill Cleanup Instructions

Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

#### Section VII. Handling and Storage

Handling and Storage Information

FLAMMABLE. IRRITANT. Keep away from heat and sources of ignition. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and

Always store away from incompatible compounds such as oxidizing agents, acids, alkalis.

#### Section VIII. **Exposure Controls/Personal Protection**

**Engineering Controls** 

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection

Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.



**Exposure Limits** 

TWA: 100 (ppm) from OSHA/NIOSH

Consult local authorities for acceptable exposure limits

### Section IX. Physical and Chemical Properties

| Physical state @ 20°C | Liquid.                  | Solubility            | Soluble in cold water, hot water, acetone. |
|-----------------------|--------------------------|-----------------------|--|
| Specific Gravity      | 0.87                     |                       |  |
| Molecular Weight      | 130.19                   | Partition Coefficient | Not available.                             |
| <b>Boiling Point</b>  | 141°C (285.8°F)          | Vapor Pressure        | 1 mm of Hg (@ 0°C)                         |
| Melting Point         | -78°C (-108.4°F)         | Vapor Density         | 4.49 (Air = 1)                             |
| Refractive Index      | 1.4003                   | Volatility            | Not available.                             |
| Critical Temperature  | Not available.           | Odor                  | Pear or banana. (Strong.)                  |
| Viscosity             | 0.872 mm <sup>2</sup> /S | Taste                 | Pear or banana. (Strong.)                  |

#### Section X. Stability and Reactivity Data

Stability This material is stable if stored under proper conditions. (See Section VII for instructions)

Conditions of Instability Avoid excessive heat and light.

Incompatibilities Highly reactive with oxidizing agents, acids, alkalis

#### Toxicological Information Section XI.

RTECS Number NS9800000

Ingestion. Inhalation. Eye contact. Skin contact. Routes of Exposure

Toxicity Data Rat LD<sub>50</sub> (oral) 16600 mg/kg Rabbit LD<sub>50</sub> (oral) 7422 mg/kg

**CARCINOGENIC EFFECTS**: Not available. Chronic Toxic Effects

**MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available Toxicity to the reproductive system: Not available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

## Emergency phone number (800) 424-9300

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Acute Toxic Effects

Irritating to eyes and skin on contact. MAY BE POISONOUS if inhaled or absorbed through skin. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Severely irritating to the lungs, mucous membranes, and respiratory tract. Always wear an OSHA/MSHA approved respirator when working with

**Ecological Information** Section XII.

> Ecotoxicity Not available.

Not available. **Environmental Fate** 

Section XIII. **Disposal Considerations** 

Waste Disposal

Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

Section XIV. Transport Information

DOT Classification DOT CLASS 3: Flammable liquid.

PIN Number UN1104

Proper Shipping Name **Amyl Acetates** 

Packing Group (PG) Ш

**DOT Pictograms** 



#### Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

(EPA)

WHMIS Classification

(Canada)

WHMIS CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).

EINECS Number (EEC) 204-662-3

**EEC Risk Statements** R10- Flammable.

R18- In use, may form flammable/explosive vapor-air mixture.

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

Japanese Regulatory Data Not available.

#### Section XVI. Other Information

Version 1.0

Validated on 3/3/1997.

Printed 1/10/2005.

## **Notice to Reader**

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations

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