

# SAFETY DATA SHEET



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## 24-Hour Emergency Number (CHEMTREC)

USA: 800-424-9300  
International: 703-527-3887

All non-emergency numbers should be directed  
to Customer Service at 800-PURITY1

## AMYL ACETATE

SDS No. M0013

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Amyl Acetate

Synonyms: Acetic Acid Pentyl Ester; Amyl Acetic Acid; Amyl Acetic Ether; Banana Oil; N-Pentyl Ethanoate, Pentaacetate

Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food or household use.

### 2. HAZARDS IDENTIFICATION



#### **Classification:**

Flammable Liquids: GHS Category 3

Skin Irritation: GHS Category 2

Eye Irritation: GHS Category 2A

Specific Target Organ Toxicity, single exposure: GHS Category 3

#### **Label Elements**

Signal Word: WARNING!

#### Hazard Statements:

- H226 – Flammable liquid and vapor.
- H303 – May be harmful if swallowed.
- H316 – Causes mild skin irritation.
- H320 – Causes eye irritation.
- H333 – May be harmful if inhaled.

#### Precautionary Statements:

- P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P243 – Take precautionary measures against static discharge.
- P280 – Wear protective gloves/clothing/eye protection/face protection.
- P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Emergency Overview**

May cause irritation of eyes, digestive tract, respiratory tract, and skin. May cause central nervous system depression. Repeated or prolonged exposure may cause dryness or cracking of skin. Flammable liquid and vapor. Possible static electric hazard. Target Organs: Central nervous system and skin.

HMIS Rating:

Health – 1\* Flammability – 3 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Amyl Acetate	623-63-7	>98%	Yes

**4. FIRST-AID MEASURES**

Inhalation: If inhaled, remove to fresh air. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing, begin artificial respiration. Get medical aid. Do not use mouth-to-mouth respiration.

Ingestion: Do not induce vomiting. Get medical aid.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Notes to Physician: Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES**

Flammability: Flammable liquid and vapor (GHS Category 3)

Auto-ignition Temperature: 375° C (707° F)

Flash Point: 38° C (100° F)

Flammable Limits: Lower Limit – 1.0 vol %, Upper Limit – 7.5 vol %

Products of Combustion: Will decompose into irritating fumes and gases, carbon monoxide, and carbon dioxide under fire conditions.

Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Use water spray to keep fire exposed containers cool. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Specific Explosion Hazards: Containers may explode in the heat of a fire.

Fire Fighting Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

National Fire Protective Association: Health - 1, Flammability - 3, Reactivity - 0

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

**6. ACCIDENTAL RELEASE MEASURES**

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. Provide ventilation to the affected area and remove all ignition sources. Control and contain spilled material. Avoid run-off into storm sewers and ditches that lead to waterways. Approach the spill from upwind and pick up absorbed material and place it in a suitable

container. Use only non-sparking tools and equipment. A vapor suppressing foam may be used. Always use proper personal protective equipment as described in section 8.

## 7. HANDLING AND STORAGE

Precautions: Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Empty containers contain product residue (liquid and vapor) and can be dangerous. Keep container tightly closed and away from heat, spark, and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames. Use with adequate ventilation. Avoid breathing vapor or mist.

Storage: Keep in a flammables area away from all sources of ignition and oxidizing materials. Keep in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or using the material should be equipped with eyewash station and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protection: Wear chemical splash goggles or appropriate eye protection. Use appropriate protective gloves and protective clothing to prevent skin exposure. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever possible. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Exposure Limits:

ACGIH – 50 ppm TWA; 100 ppm STEL (listed under pentyl acetate; all isomers)

NIOSH REL – 100 ppm TWA; 525 mg/m<sup>3</sup> TWA; 1000 ppm IDLH

OSHA Final PELs – 100 ppm TWA; 525 mg/m<sup>3</sup> TWA

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: Clear, colorless liquid.

Odor: banana-like or pear-like odor

Molecular Formula: CH<sub>3</sub>CO<sub>2</sub>C<sub>5</sub>H<sub>11</sub>

Molecular Weight: 130.19

Auto-ignition Temperature: 375° C (707° F)

Flash Point: 38° C (100° F)

Flammable Limits: Lower Limit – 1.0 vol %, Upper Limit – 7.5 vol %

pH: Not available.

Boiling Point: 149° C (300° F) @ 760 mm Hg

Freezing/Melting Point: -70.8° C (-95.44° F)

Decomposition Temperature: Not available

Specific Gravity: 0.87 g/cm<sup>3</sup> @ 20° C

Vapor Density (Air=1): 4.5

Vapor Pressure: 6 mm Hg @ 20° C.

Evaporation Rate (Butyl acetate = 1): 4.2

Viscosity: Not Available

Solubility: Soluble

Conductivity: Semiconductive; Conductivity = 2160 pS/m; Dielectric Constant = 4.75; Relaxation Time Constant = 1.9x10<sup>-2</sup> seconds

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat.

Incompatibility With Various Substances: Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

Hazardous Polymerization: Has not been reported.

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, skin absorption, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: may cause irritation of respiratory tract. May be harmful if inhaled. May cause central nervous system effects.

INGESTION HAZARD: May cause irritation of the digestive tract. May be harmful if swallowed.

SKIN CONTACT HAZARD: May cause irritation of the skin. May be harmful if absorbed through the skin. Repeated or prolonged exposure may cause dryness or cracking of the skin.

EYE CONTACT HAZARD: May cause eye irritation.

Chronic Exposure Hazards: Repeated or prolonged skin contact may defat the skin and produce irritation and dermatitis. High concentrations may cause central nervous system effects.

Animal Toxicity:

Oral, rat: LD50 = 7400 mg/kg;

Oral, rabbit: LD50 => 1600 g/kg;

Human Toxicity:

Draize test, eye: 25 ppm/15M Mild;

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

Epidemiology: No information found. The toxicological properties of this material have not been fully investigated.

Teratogenicity: No information found. The toxicological properties of this material have not been fully investigated.

Reproductive Effects: No information found. The toxicological properties of this material have not been fully investigated.

Mutagenicity: No information found. The toxicological properties of this material have not been fully investigated.

Neurotoxicity: No information found. The toxicological properties of this material have not been fully investigated.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish, bluegill/sunfish: LC50 = 650 mg/L; 96 hr; biostatic assay at 23° C;

Fish, mosquito fish: LC50 = 65 mg/L; 24-96 hr; unspecified;

Environmental Fate: Do not empty into drains.

## 13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. TRANSPORT INFORMATION

US DOT, IATA, IMO

Proper Shipping Name: Amyl Acetates

Hazard Class: 3

UN Number: UN1104

Packing Group: III

Canada TDG

Additional Information: Flash Point 38 C

## 15. REGULATORY INFORMATION

### US Federal Regulations:

TSCA: CAS# 623-63-7 is listed on the TSCA Inventory.

Health and Safety Reporting List: CAS# 623-63-7 is not listed.

Chemical Test Rules: CAS# 623-63-7 is not listed.

Section 12b: CAS# 623-63-7 is not listed.

TSCA Significant New Use Rule: Does not have an SNUR under TSCA.

CERCLA Hazardous Substances: CAS# 623-63-7 does not have a RQ

SARA Section 302: Does not have a TPQ

SARA Codes: CAS# 623-63-7 – fire

Section 313: Not reportable.

Clean Air Act: CAS# 623-63-7 is not listed as a hazardous air pollutant (HAP). It is not a Class 1 Ozone Depleter. It is not a Class 2 Ozone Depleter.

Clean Water Act: CAS# 623-63-7 is not listed as a Hazardous Substance. It is not a Priority Pollutant. It is not a Toxic Pollutant.

OSHA: Not considered highly hazardous by OSHA.

### US State Regulations:

CAS# 623-63-7 is on the following state right-to-know lists: Pennsylvania, Massachusetts

California Prop 65: California No Significant Risk Level: Not listed

### Canada:

DSL/NDSL: CAS# 623-63-7 is listed on Canada's DSL list.

WHMIS: WHMIS classification is B2. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by those regulations.

Ingredient Disclosure List: CAS# 623-63-7 is listed on Canada's Ingredient Disclosure List.

### DSCL (EEC):

Hazard Symbols: Not available

Risk Phrases: R10 – Flammable; R36 – Irritating to the eyes.

Safety Phrases: S23 – Do not inhale gas/vapor/fumes/spray; S25 – Avoid contact with eyes.

WGK (Water Danger/protection): CAS# 623-63-7: 1

## 16. OTHER INFORMATION

Originally Prepared: 1/1/2006

Last Revised: 12/12/2011 – Converted to GHS format.

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