

AMYL ACETATE

1. Product Identification

Synonyms: Acetic acid, pentyl ester; n-amyl acetate CAS No.: 628-63-7 Molecular Weight: 130.21 Chemical Formula: CH3COOC5H11 Product Codes: 3568

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
n-Amyl Acetate	628-63-7	100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life) Flammability Rating: 3 - Severe (Flammable) Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER Storage Color Code: Red (Flammable)

Potential Health Effects

Inhalation:

Inhalation of vapors causes irritation to the respiratory tract. High concentrations can cause narcosis, headache, fatigue, chest pains, cough, nausea, dizziness, and possible damage to liver and kidneys.

Ingestion:

May be absorbed through the gastrointestinal tract; symptoms may parallel inhalation. Additional symptoms may include vomiting, stomach pain.

Skin Contact:

May cause irritation, redness, and pain. Liquid degreases the skin.

Eye Contact:

Vapors > 300 ppm cause burning sensations in the eyes. Contact causes irritation, redness, and pain. **Chronic Exposure:**

Prolonged or repeated skin exposure may cause dermatitis. Chronic exposure may cause eye effects. **Aggravation of Pre-existing Conditions:**

Use of alcoholic beverages may enhance toxic effects.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of soap and 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.

5. Fire Fighting Measures

Fire:

Flash point: 25C (77F) Autoignition temperature: 360C (680F) Flammable limits in air % by volume: lel: 1.1: uel: 7.5 Flammable. **Explosion:** Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. 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

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as

specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! Have dry powder fire extinguisher on hand during clean-up operations. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: For n-Amyl Acetate:

OSHA Permissible Exposure Limit (PEL): 100 ppm (TWA).
for Pentyl Acetate, all isomers:
ACGIH Threshold Limit Value (TLV): 50 ppm (TWA), 100 ppm (STEL)

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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. Use explosion-proof equipment.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator 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 organic vapor respirator 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. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible.

9. Physical and Chemical Properties

Appearance: Clear, colorless liquid. Odor: Banana-like odor. Solubility: 0.2g/100g water @ 20C (68F). **Specific Gravity:** 0.87 @ 20C/4C pH: No information found. % Volatiles by volume @ 21C (70F): 100 **Boiling Point:** 149C (300F) **Melting Point:** -71C (-96F) Vapor Density (Air=1): 4.5 Vapor Pressure (mm Hg): 4 @ 20C (68F) **Evaporation Rate (BuAc=1):** 0.42

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:
Strong alkalis, acids, nitrates and oxidizing agents.
Conditions to Avoid:
Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Oral rat LD50: > 1600 mg/kg.

\Cancer Lists\							
	NTP Carcinogen						
Ingredient	Known	Anticipated	IARC Category				
n-Amyl Acetate (628-63-7)	No	No	None				

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the water, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.) ------Proper Shipping Name: AMYL ACETATES Hazard Class: 3 UN/NA: UN1104 Packing Group: III Information reported for product/size: 4L

International (Water, I.M.O.)

Proper Shipping Name: AMYL ACETATES Hazard Class: 3 UN/NA: UN1104 Packing Group: III Information reported for product/size: 4L

15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia	
n-Amyl Acetate (628-63-7)			 Yes		Yes	
\Chemical Inventory Status - Part 2\						
Ingredient		Korea	a DSL	NDSL	Phil.	
n-Amyl Acetate (628-63-7)		Yes			Yes	
\Federal, State & International Regulations - Part 1\SARA 302SARA 313						
Ingredient	RQ	TPQ	Li	st Che	mical Catg.	
n-Amyl Acetate (628-63-7)						
\Federal, State & International Regulations - Part 2\						
Ingredient	CERCL	A	-	1 3 8 		
n-Amyl Acetate (628-63-7)		-	No	 Y	es	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Pure / Liquid) Australian Hazchem Code: 3[Y] Poison Schedule: None allocated. WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 3 Reactivity: 0 Label Hazard Warning: WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. Label Precautions:

Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Use only with adequate ventilation. Keep away from heat, sparks and flame. Wash thoroughly after handling.

Keep container closed.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Product Use: Industrial chemical. **Revision Information:** MSDS Section(s) changed since last t

MSDS Section(s) changed since last revision of document include: 5.

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