SPI Supplies Division

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Safety Data Sheet

Date Effective: April 28, 2015

SPI #02461-AA, 02461-AB SPI-Chem™ Amyl Acetate

Section 1: Identification

Chemical Name/Synonyms...... n-Amyl acetate; Pentyl acetate; 1-Pentyl acetate; n-Pentyl acetate

Chemical family..... organic ester

Emergencies Contacting CHEMTREC:

24 Hour Emergency Use Only #'s... Worldwide phone: 1-(703)-527-3887 Worldwide FAX: 1-(703)-741-6090 Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.....n-Amyl Acetate

CAS #'s..... 628-63-7

Chemical Formula..... CH₃(CH₂)₄OC(O)CH₃

HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3) Acute aquatic toxicity (Category 3) Chronic aquatic toxicity (Category 3)

GHS Label Elements:

Pictogram



Signal word: Warning

Hazard Statements:

- H226 Flammable liquid and vapor.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- P233 Keep container tightly closed

- P240 Ground/bond container and receiving equipemnt.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P300 + P361 + P353 IF ON SKIN: Remover/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P370 + P 378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous Material Information System USA

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	

NFPA Rating (estimated)

Health	1
Flammability	3
Reactivity	0

Section 2: Composition

Ingredient	CAS #	Percent	EINECS #
Amy Acetate	628-63-7	>98	211-047-3

Section 3: Hazard Identification

Emergency overview: Warning! Flammable liquid and vapor. May cause skin cracking or dryness, eye irritation, respiratory tract irritation, or central nervous system depression.

Potential Health Effects

Inhalation:

Inhalation of high concentrations may cause central nervous system effects

characterized by nausea, dizziness, headache, unconsciousness and coma. Vapors may cause dizziness or suffocation. Causes irritation of the mucous membrane and upper respiratory tract. **Ingestion:**

May cause gastrointestinal irriation with nausea, vomiting and diarrhea. May cause effects similar to those for inhalation exposure. Ingestion of large amounts may cause CNS depression

Skin contact:

May cause skin irritation.

Eye contact:

Causes eye irritation.

Chronic exposure:

Prolonged or repeated skin contact may cause dermatitis. Chronic exposure will cause neurological abnormalities or degradation.

Aggravation of Pre-existing Conditions:

No information found.

Section 4: First Aid Measures

Skin Exposure:

If spilled on skin, immediately begin decontamination with running water for 15 minutes, removing contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention.

Eye Exposure:

If chemical is splashed in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek immediate medical attention.

Inhalation:

Seek immediate medical attention. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5: Fire Fighting Measures

Fire:

Flash Point: 23°C (73.4°F)

Auto-Ignition Temperature: 360°C (680.0°F)

As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Fire Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Explosion Limits:

Lower: 1.1 vol % Upper: 7.5 vol %

NFPA Rating: (estimated) Health: 1 Flammability: 3

Stability: 0

Section 6: Accidental Release Measures

Dangerous material. Dry, partially decomposed material may detonate or

autoignite. Handle decomposed material as an explosive that may detonate with mild shock using explosive disposal procedures.

Remove all sources of ignition. Ventilate area or leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills : Absorb spill with inert material, such as vermiculite or sand, then place in a suitable container for disposal. Use non-sparking tools and equipment. A vapor suppressing foam may be used to reduce vapors.

Section 7: Handling and Storage

Containers should be protected against damage and not exposed to heating. Storage area should be segregated, well ventilated, and equipped with both decomposition and explosion vents having the maximum amount of free opening.

Protect against excessive heat and direct sunlight, avoid contact with electric light bulbs, steam coils, or other sources of heat; prohibit open flames or other sources of ignition. Control ignition sources. Employ grounding, bonding venting, and explosion relief provisions in accord with accepted engineering practices in any process capable of generating an explosion due to static charge.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls and Personal Protection

Airborne Exposure Limits:

None established

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. Use explosion proof equipment.

Personal Respirator (NIOSH Approved):

Not expected to require personal respirator usage.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Appearance:

Thin, transparent, colorless to pale yellow solution

Odor:

Sweet, banana-like

Solubility: Slightly soluble in water.

Specific Gravity: .876 g/ml

pH: No information found

Boiling Point/Range: 149° C

Melting Point: -70.8° C

Vapor Density (Air = 1): 4.5

Vapor Pressure (mm Hg): 4

Evaporation Rate (BuAc=1): 0.42

 $\begin{array}{l} \textbf{Molecular Formula:} \\ \textbf{CH}_3(\textbf{CH}_2)_4\textbf{OC}(\textbf{O})\textbf{CH}_3 \end{array}$

Formula Weight:

130.17

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents, strong reducing agents, strong acids.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#: CAS# 628-63-7: AJ1925000 LD50/LC50: CAS# 628-63-7: Oral, rabbit: LD50 = 7400 mg/kg; Oral, rat: LD50 = >1600 mg/kg;

Carcinogenicity:

CAS# 628-63-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Section 12: Ecological Information

Ecotoxicity:

Fish: Bluegill/Sunfish: LC50 = 650 mg/L; 96 Hr; Static bioassay at 23°C Fish: Mosquito Fish: LC50 = 65 mg/L; 24-96 Hr; Unspecified

If released on land or in water, volatilization would be important (half-life 5.9 hr in a typical river) and biodegradation, should be a dominant degradative process.

Adsorption to soil or sediment would not occur to any significant extent, so leaching into groundwater may occur.

Some chemical hydrolysis may occur but only under fairly alkaline conditions.

n-Amyl acetate would not be expected to bioconcentrate in aquatic organism.

Environmental: In air, n-amyl acetate will be scavenged by rain and degrade by reaction with photochemically produced hydroxyl radicals estimated half-life 4.5 days).

Physical: No information available.

Other: No information available

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14: Transport Information

Shipping NameAMYL ACETATESHazard Class:3UN Number:UN1104Packing Group:IIIAdditional Info:III

AMYL ACETATES 3 UN1104 III FLASHPOINT 23 C

Section 15: Regulatory Information

US FEDERAL

TSCA

CAS# 628-63-7 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. **Chemical Test Rules** CAS# 628-63-7: 40 CFR 799.5000 Section 12b None of the chemicals are listed under TSCA Section 12b. **TSCA Significant New Use Rule** None of the chemicals in this material have a SNUR under TSCA. **CERCLA Hazardous Substances and corresponding RQs** CAS# 628-63-7: 5000 lb final RQ; 2270 kg final RQ SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ. SARA Codes CAS # 628-63-7: immediate, fire, Section 313 No chemicals are reportable under Section 313. Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 628-63-7 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. **OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA. **STATE**

CAS# 628-63-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

WGK (Water Danger/Protection) CAS# 628-63-7: 1 Canada - DSL/NDSL CAS# 628-63-7 is listed on Canada's DSL List. Canada - WHMIS This product has a WHMIS classification of B2. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List

CAS# 628-63-7 is listed on the Canadian Ingredient Disclosure List.

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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