

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION AND GENERAL INFORMATION

P/N#:	<b>0201</b>	<b>NFPA Code</b>
Nomenclature:	<b>Banana Oil (Ampules)</b>	H 1
Company Name:	Allegro Industries	F 3
Address:	1360 Shiloh Church Rd	R 0
	Piedmont, SC 29673	O None
	864-846-8740	
	Chemtrac: 800-424-9300	

## 2. COMPOSITION

Product Name:	Amyl Acetate
Chemical Family:	N/A
Synonyms:	Acetic acid, Pentyl Ester, N-Amyl Acetate
Ingredient:	n-Amyl Acetate
CAS Number:	628-63-7
Percent:	100%
Hazardous:	Yes.
Molecular Weight:	130.21
Molecular Formula:	CH <sub>3</sub> COOC <sub>5</sub> H <sub>11</sub>
Notes:	None.

## 3. HAZARDS IDENTIFICATION

Physical Dangers:	Flammable liquid and vapor.
Routes of Exposure:	Skin, eyes, and respiratory tract.
<b>Health Hazards</b>	
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.
Skin Contact:	May cause irritation, redness, and pain. Liquid degreases the skin.
Eye Contact:	Vapors greater than 300 PPM causes burning sensations in the eyes. Contact causes irritation, redness, and pain.
Ingestion:	May be absorbed through the gastrointestinal tract; symptoms may parallel inhalation. Additional symptoms may include vomiting and stomach pain.
Chronic Exposure:	Prolonged or repeated skin exposure may cause dermatitis. Chronic exposure may cause eye effects.
Acute Exposure:	N/A
Aggr. of Pre-Ex Cond:	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.
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.
Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

## 5. FIRE FIGHTING MEASURES

Fire Hazards:	Flammable liquid and vapor.
Fire Extinguisher:	Dry Chemical, Alcohol Foam, or Carbon dioxide. Water may be ineffective.
Explosion:	Above flash point, vapor-air mixtures are explosive within flammable limits. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.
Flash Point:	25°C (77°F)
Flammable Limits in Air % by Volume:	lcl: 1.1; ucl: 7.5 Flammable.
Auto Ignition Temperature:	360°C (680°F)
PPE for Fire Fighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
Notes:	N/A

## 6. ACCIDENTAL RELEASE MEASURES

Procedure for Spill/Leak:	Ventilate area of leak or spill. Remove all source if ignition. Wear appropriate personal protective equipment. 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. U.S. Regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the U.S. 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.
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## 7. HANDLING AND STORAGE

Storage: Protect against physical damage. Store in cool, dry, well-ventilated location, away from any area where the fire hazard may be acute. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid standard 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.

Shelf Life: 3 Years.

Notes: N/A

## 8. EXPOSURE CONTROLS

PPE: See below.

Inhalation: 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 standards. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

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

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

Ventilation: 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.

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)

Notes: None.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor: Clear, colorless liquid with a banana-like odor.

Boiling Point: 149°C (300°F)

Melting Point: -71°C (-96°F)

Specific Gravity: 0.87 @ 20C/4C

pH: No information found.

Volatile (% by volume): @ 20°C (70°F):100

Evaporative Rate (BuAc=1) : 0.42

Vapor Density( Air=1): 4.5

Vapor Pressure (mm Hg): 4 @ 20°C (68°F)

Solubility in Water: 0.2g/100g water @ 20°C (68°F)

## 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.

Materials to Avoid: N/A

## 11. TOXICOLOGICAL INFORMATION

Oral LD50: Rat: >1600 mg/kg

NTP Carcinogen:	Ingredient	Known	Anticipated	IARC Category
	n-Amyl Acetate	No	No	None

Notes: None.

## 12. ECOLOGICAL INFORMATION

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

Environmental Toxicity: No information found.

## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to 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.

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### 14. TRANSPORT INFORMATION

Proper Shipping Name: Amyl Acetates  
Hazard Class: 3  
Packing Group: III  
UN Number: UN1104  
Reportable Quantity: 4L  
Notes: None.

### 15. REGULATORY INFORMATION

TSCA Registered: N/A  
FDA Approved: N/A  
ICSC: N/A

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

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 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.

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