SAFETY DATA SHEET

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: **0201**
Nomenclature: **Banana Oil (Ampules)**
Recommended Use of the Chemical & Restrictions on Use:
Uses: Solvent. Paints. In photographic films and plates.
Restrictions On Use: N/A
Company Name: Allegro Industries
Address: 1360 Shiloh Church Rd
Piedmont, SC 29673
864-846-8740
Emergency #: Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 3

Hazard statements:
Causes eye irritation
May cause respiratory irritation. May cause drowsiness or dizziness
Flammable liquid and vapor

Hazards not otherwise classified (HNOC): Not Applicable
Other hazards: Causes mild skin irritation

Precautionary Statements - Prevention:
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/ .? /equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool

In case of fire: Use CO2, dry chemical, or foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage:
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal:
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION

Chemical Name	CAS No	Weight %
Amyl Acetate 628-63-7	628-63-7	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency
Skin Contact: and need to talk to a poison specialist. Call 1-800-222-1222
Eye Contact: Flush eye with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.
Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: Causes eye irritation. May cause skin irritation. Central nervous system effects. Drowsiness. Dizziness. Headache. May cause cardiovascular effects. May affect respiration. Irritating to respiratory system. May cause build-up of fluid in the lungs (pulmonary edema). Dyspnea (Shortness of breath and difficulty breathing.) May cause nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam. Water spray.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide ; Carbon dioxide

Specific hazards: Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containters with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/ Precautions:	Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.
Safe Handling Advice:	Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/ Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segrated and approved area. Store away from incompatible materials.
Incompatible Materials:	Oxidizing agents. Bromine. Chlorine. Fluorine. Bases. Acids.

8. EXPOSURE CONTROLS

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Amyl Acetate - 628-63-7	100 ppm TWA 525 mg/m3 TWA	100 ppm TWA 525 mg/m3 TWA	100 ppm STEL 50 ppm TWA	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Amyl Acetate - 628-63-7	50 ppm TWA 266 mg/m3 TWA 100 ppm STEL 532 mg/m3 STEL	50 ppm TWA 100 ppm STEL	50 ppm TWA Pentyl acetate, all isomers) 100 ppm STEL	50 ppm TWAEV 266 mg/m3 TWAEV 100 ppm STEV 532 mg/m3 STEV

Australia and Mexico

Components	Australia	Mexico
Amyl Acetate - 628-63-7	541 mg/m3 STEL 100 ppm STEL 50 ppm TWA 270 mg/m3 TWA	100 ppm TWA 530 mg/m3 TWA 150 ppm STEL 800 mg/m3 STEL

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles.
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	No information available
Color:	Colorless
Odor:	Banana-like
Taste:	No information available
Formula:	C7-H14-O2
Molecular/Formula weight:	130.19
Flash point (°C):	16
Flashpoint (°C/°F):	16-25 °C/60-77 °F
Flash Point Tested according to:	Closed cup
Lower Explosion Limit (%):	1.1%
Upper Explosion Limit (%):	7.5%
Autoignition Temperature (°C/°F):	360 °C/680 °F
pH:	No information available
Melting point/range(°C/°F):	-70.8 °C/-95.44 °F
Boiling point/range(°C/°F):	140-150 °C/284-302 °F
Decomposition temperature (°C/°F):	No information available
Specific gravity:	0.874-0.879 @ 20 °C
Density (g/cm3):	No information available
Bulk density:	No information available
Vapor pressure @ 20°C (kPa):	0.4667-0.667 @ 25 °C
Evaporation rate:	0.42 (n-butyl acetate = 1)
Vapor density:	4.5
VOC content (g/L):	No information available
Odor threshold (ppm):	0.054-3.9 (low - detection in air); 53 (irritating concentration); 300 (noticeably irritating to eyes)
Partition coefficient (n-octanol/water):	2.3
Viscosity:	No information available
Miscibility:	No information available
Solubility:	Very soluble in Ethanol; Very soluble in Ether; Very slightly soluble in water; Solubility in Water: 1730 mg/l @ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents
Reacts with strong bases
Reactive with acids

Chemical stability

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources.
Incompatible Materials:	Oxidizing agents. Bromine. Chlorine. Fluorine. Bases. Acids.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity:	No information available
Special Remarks on Corrosivity:	No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

Amyl Acetate - 628-63-7

LD50/oral/rat:	6500 mg/kg Oral LD50 Rat; > 1600 mg/kg Oral LD50 Rat
LD50/oral/mouse:	No infomation available
LD50/dermal/rabbit:	No infomation available
LD50/dermal/rat:	No infomation available
LC50/inhalation/rat:	>3000 ppm 6 h
LC50/inhalation/mouse:	No infomation available
Other LD50 or LC50 information:	7400 mg/kg oral LD50 Rabbit

For Amyl Acetate (Mixed isomers)

RTECS no. AJ2010000:	>20 ml/kg dermal LD50 Rabbit

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = >1600mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor =	No information available
VALUE-Gas =	>3000ppm (6-hr)
VALUE-Dust/Mist =	No information available

LC50/Inhalation/mouse

VALUE-Vapor =	No information available
VALUE - Gas =	No information available
VALUE - Dust/Mist =	No information available

Symptoms

Skin Contact:	May cause skin irritation. Mildly to moderately irritating to the skin. It may cause dermatitis. It may be absorbed through the skin.
Eye Contact:	Causes eye irritation. Mild eye irritation. May cause conjunctival irritation. May cause conjunctivitis.
Inhalation:	Irritating to respiratory system. May cause conjunctival irritation. May affect respiration. Symptoms may include coughing and shortness of breath. May cause tight feeling in chest and difficulty breathing. It may cause pulmonary edema. Inhalation of high concentrations of vapors may cause dizziness or suffocation. May cause nausea, vomiting. May affect the cardiovascular system (cardiac arrhythmias). May affect behavior/central nervous system (excitement). It may affect behavior/central nervous system (somnolence, headache, dizziness, drowsiness, weakness, confusion, delirium, ataxia, giddiness, visual disturbances, unconsciousness, coma).
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause abdominal discomfort.
Aspiration hazard:	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity:	Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Chronic exposure may cause central nervous system effects. This chemical has not been adequately evaluated to determine whether brain or other nerve damage could occur with repeated exposure. However, many solvents and petroleum-based chemicals have been shown to cause such damage. Effects may include reduced memory, and concentration, personality changes (withdrawl, irritability), fatigue, sleep disturbances, reduced coordination, and or/effects on the nerves supplying the internal organs (autonomic nerves) and/or peripheral nerves to the arms and legs (weakness, sensation or feeling of "pins and needles"). Prolonged or repeated inhalation may affect the liver.
Sensitization:	No information available
Mutagenic Effects:	No information available
Carcinogenic effects:	Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP

Amyl Acetate	Not listed	Not listed	Not listed

Components	OSHA HCS - Carcinogens	Australia - Prohibted Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Amyl Acetate	Not listed	Not listed	Not listed

Reproductive toxicity: No data is available
Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity
STOT - single exposure: No information available
STOT - repeated exposure: No information available
Target Organs: Skin. Central nervous system. Peripheral nervous system. Respiratory system. Liver.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects: Aquatic environment.
Freshwater Algae Data: 1300 mg/l EC50 Chlorococcales(green algae order) 24 h
Freshwater Fish Species Data: 650 mg/L LC50 Lepomis macrochirus 96 h static 1
Water Flea Data: 210 mg/l LC50 Daphnia magna 24 h
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA -P Series Wastes	RCRA - U Series Wastes
Amyl Acetate	None	None	None	None

14. TRANSPORT INFORMATION

DOT:
UN-No: Not Regulated
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available
Symbol(s): [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms)

TDG (Canada)
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: AMYL ACETATES,3,UN1104,PG III

ADR
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Packing Group: III
Subsidiary Risk: No information available

Classification Code: No information available
Description: UN1104 Amyl acetates,3,III
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available
EMS: F-E

RID
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: III
Description: UN1104 Amyl acetates,3,III,RID

ICAO
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: Amyl acetates,3,UN1104,PG III

IATA
UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 3L
Specila Provisions: No information available
Description: UN1104,Amyl acetates,3,PG III

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	PHILIPPINES (PICCS)
Amyl Acetate	PresentACTIVE	KE-01766	Present

Components	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Amyl Acetate	Present (2)- 733	Present	Present	Present 211-047-3

U.S. Regulations
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1321
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List: Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
5000 lb RQ
1 lb RQ
Louisana Reportable Quantity List for Pollutants: Listed
California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986
Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity
Amyl Acetate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs
Amyl Acetate	2270 kg final RQ 5000 lb final RQ	None

Components	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Amyl Acetate	None	None	None

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals with Significant New Use Rules (SNURS)	TSCA 8(d) - Health and Safety Reporting
Amyl Acetate	Not Applicable	01/26/199406/30/1998

Canada

WHMIS 2015 Hazard Classification
Information: Not a dangerous product according to HPR classification criteria.
Component: Amyl Acetate
WHMIS 2015 Hazard Classification H225 Highly flammable liquid and vapour; Specific target organ toxicity Single exposure
Flammable liquids - Category 2: Category 3: H335 May cause respiratory irritation.

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

WHMIS 1988 Hazard Class B2 Flammable liquid

Components	WHMIS Ingredient Disclosure List -
Amyl Acetate	1%

Inventory

Components	Canada (DSL)	Canada (NDSL)
Amyl Acetate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Amyl Acetate	Not listed	Not listed

EU Classification

Components	Cas-No.	EU GHS - SV - CLP (1272/2008)
Amyl Acetate	628-63-7	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and Vapour.; Supplemental Hazards: EUH066 Repeated exposure may cause skin dryness or cracking. 607-130-00-2

R-phrase(s)

R10 - Flammable.
R66 - Repeated exposure may cause skin dryness or cracking.

S -phrase(s)

S 2 - Keep out of the reach of children.
S23 - Do not breathe gas/fumes/vapor/spray.
S25 - Avoid contact with eyes.

Components	Classification	Concentration Limits:	Safety Phases
Amyl Acetate	R10 R66	No Information	S2 S23 S25

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Flammable

16. OTHER INFORMATION

Revised: 2/2/2018 **Rev: E**

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