

SAFETY DATA SHEET

Preparation Date: 4/14/2014

Revision Date: 2/2/2018

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: A1280
Product Name: AMYL ACETATE, REAGENT

Other means of identification

Synonyms: Acetate d'amyle (French)
 Acetic acid, amyl ester
 Birmenoel
 Pent-acetate
 1-Pentanol acetate
 Pentyl acetate
 n-Pentyl acetate
 1-Pentyl acetate
 Primary amyl acetate
 Amyl acetic ester

CAS #: 628-63-7
RTECS # AJ1925000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent. Paints. In photographic films and plates.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

Label elements

Warning

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

Precautionary Statements - Response

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 person to fresh air and keep 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/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Amyl Acetate	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 and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.
Eye Contact:	Flush eyes 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, headache, vomiting
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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

Extinguishing Media

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

Hazardous Combustion Products: No information available.

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 containers 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 segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents
 Bromine
 Chlorine
 Fluorine
 Bases
 Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**National occupational exposure limits****United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Amyl Acetate	628-63-7	100 ppm TWA 525 mg/m ³ TWA	100 ppm TWA 525 mg/m ³ TWA	100 ppm STEL 50 ppm TWA	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Amyl Acetate	628-63-7	50 ppm TWA 266 mg/m ³ TWA 100 ppm STEL 532 mg/m ³ STEL	50 ppm TWA 100 ppm STEL	50 ppm TWA Pentyl acetate, all isomers 100 ppm STEL	50 ppm TWAEV 266 mg/m ³ TWAEV 100 ppm STEV 532 mg/m ³ STEV

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Amyl Acetate	628-63-7	100 ppm STEL 541 mg/m ³ STEL 50 ppm TWA 270 mg/m ³ TWA	100 ppm TWA 530 mg/m ³ TWA 150 ppm STEL 800 mg/m ³ 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	Flammability: No information available	Flash point (°C): 16
Flashpoint (°C/°F): 16-25 °C/60-77 °F	Flash Point Tested according to: Closed cup	Autoignition Temperature (°C/°F): 360 °C/680 °F
Lower Explosion Limit (%): 1.1%	Upper Explosion Limit (%): 7.5%	Melting point/range(°C/°F): -70.8 °C/-95.44 °F
Decomposition temperature(°C/°F): No information available	Boiling point/range(°C/°F): 140-150 °C/284-302 °F	Bulk density: No information available
Density (g/cm3): No information available	Specific gravity: 0.874-0.879 @ 20 °C	pH: 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

Product code: A1280

Product name: AMYL ACETATE,
REAGENT

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
CAS-No. 628-63-7

LD50/oral/rat = 6500 mg/kg Oral LD50 Rat; > 1600 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = >3000 ppm 6 h

LC50/inhalation/mouse = No information 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 = > 1600 mg/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 = >3000 ppm (6-hr)

VALUE-Dust/Mist = No information available

Product code: A1280

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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 (withdrawal, 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	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Amyl Acetate	628-63-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)**NTP (National Toxicology Program)*

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.

Amyl Acetate - 628-63-7

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	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Amyl Acetate	628-63-7	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: Amyl acetates

Hazard Class: 3

Subsidiary Class No information available

Packing group: No information available

Emergency Response Guide Number No information available

Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions 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).
Description: UN1104,Amyl acetates ,3,,PG III

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

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
Special Provisions No information available
Description: UN1104,Amyl acetates,3,PG III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Amyl Acetate</i>	628-63-7	PresentACTIVE	KE-01766	Present	Present (2)-733	Present	Present	Present 211-047-3

U.S. Regulations

Amyl Acetate

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
Louisiana 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	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Amyl Acetate</i>	628-63-7	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Amyl Acetate</i>	628-63-7	5000 lb final RQ 2270 kg final RQ	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Amyl Acetate</i>	628-63-7	Not Applicable	01/26/199406/30/1998

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Amyl Acetate

WHMIS 2015 Hazard Classification
Flammable liquids - Category 2: H225 Highly flammable liquid and

628-63-7 (100)

vapour.; Specific target organ toxicity - Single exposure -
Category 3: H335 May cause respiratory irritation.

Canada Hazardous 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

Amyl Acetate

WHMIS 1988

B2

Canada Controlled Products Regulation:

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

Components	WHMIS Ingredient Disclosure List -
Amyl Acetate	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Amyl Acetate	628-63-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Amyl Acetate	628-63-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Amyl Acetate	628-63-7	Not listed

EU Classification**EU GHS - SV - CLP 1272/2008**

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

EU - CLP (1272/2008)**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	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Amyl Acetate	628-63-7	R10 R66	No information	S2 S23 S25

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

Indication of danger:**Product code:** A1280**Product name:** AMYL ACETATE,
REAGENT**12 / 13**

Flammable

16. OTHER INFORMATION

Preparation Date: 4/14/2014
Revision Date: 2/2/2018
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet