

spectrum

chemicals & laboratory products

A Division of Spectrum Chemical Mfg. Corp.

Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI¹ format to the GHS² format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

- 1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.
- 2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"

Label in ANSI Format

CAUTION!
MAY BE HARMFUL IF SWALLOWED
MAY CAUSE EYE AND SKIN IRRITATION
MAY AFFECT BEHAVIOR AND
METABOLISM

Do not taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling.

FIRST AID: In case of contact, flush affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and/or jewelry. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If irritation persists, call a physician.

KEEP FROM CHILDREN


BE159 SIZ SY
Benzyl Benzoate
(Benzoic Acid Phenylmethyl Ester)
U.S.P.
CAS 120-51-4

$C_{11}H_{12}O_2$ F.W. 212.24

Assay 99.0-100.5%
Specific Gravity $\pm 25^{\circ}C$ 1.116-1.120
Congealing Temperature Min. 18.0°C
Refractive Index $\pm 20^{\circ}C$ 1.565-1.570
Acidity To pass test

MAXIMUM LIMITS
Aldehyde 0.05%
Residual Solvents To pass test

FLUSHED WITH NITROGEN

CAUTION: For manufacturing, processing or repacking. Read and understand the label and Material Safety Data Sheet (MSDS) prior to use.
For chemical emergency, call (800)424-9300.
www.SpectrumChemical.com

Lot No. XQ###

SPECTRUM CHEMICAL MFG. CORP.Gardena, CA 90248 • New Brunswick, NJ 08901

CORPORATE OFFICES
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843

Label in GHS Format

WARNING!

- May irritate if swallowed • May cause central nervous system effects based on animal data
- Do not use or handle • Wear protective gloves
- After handling
- WASH AND DRY IMMEDIATELY! Call a POISON CENTER or doctor/physician if you feel unwell. Avoid mouth.

KEEP FROM CHILDREN

SPECTRUM

BE159 SIZ SY

Benzyl Benzoate

(Benzoic Acid Phenylmethyl Ester)

U.S.P.

CAS 129-51-4

CAUTION: For industrial use only. Do not use for food or pharmaceutical purposes. Read and understand the label and safety data sheet (SDS) prior to use.

Chemical Emergency: (800)424-9086

www.SpectrumChemical.com

$C_{15}H_{14}O_2$ F.W. 212.24

Assay 99.0-100.5%

Specific Gravity @ 25°C 1.115-1.120

Freezing Temperature Min. 18.0°C

Refractive Index @ 20°C 1.568-1.570

Acidity To pass test

MAXIMUM LIMITS

Aldehyde 0.05%

Residual Solvents To pass test

LIGHT SENSITIVE: Keep tightly closed in light-resistant containers.

FLUSHED WITH NITROGEN

Lot No. XQ####

¹ American National Standards Institute

² Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs

MATERIAL SAFETY DATA SHEET

| | | |
|------|------|-------------------------------|
| NFPA | HMIS | Personal Protective Equipment |
|------|------|-------------------------------|



| | |
|---------------|---|
| Health Hazard | 1 |
| Fire Hazard | 3 |
| Reactivity | 0 |



See Section 8.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|--|--|
| Product code: | A1280 |
| Product Name: | AMYL ACETATE, REAGENT |
| Chemical Name: | Acetic acid, pentyl ester |
| Acetate d'amyle (French) Acetic acid, amyl ester Birnenöl Pent-acetate 1-Pentanol acetate Pentyl acetate n-Pentyl acetate 1-Pentyl acetate Primary amyl acetate Amyl acetic ester | |
| Recommended use: | Solvent. Paints. In photographic films and plates. |
| CAS #: | 628-63-7 |
| RTECS # | AJ1925000 |
| Formula: | C7-H14-O2 |
| CI#: | Not available |
| Supplier: | Spectrum Chemicals and Laboratory Products, Inc. 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: | Regina Wachenheim (East Coast) |
| Contact Person: | Martin LaBenz (West Coast) |

2. HAZARDS IDENTIFICATION

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

Flammable liquid

Irritating to eyes

May cause skin irritation

Odor:
Banana-like.

Physical state:
Liquid.

Appearance:
No information available

Color:
Colorless.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Skin. Eyes. Inhalation. Ingestion.

Acute Potential Health Effects:

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:

May cause irritation of respiratory tract. May cause central nervous system effects. May affect respiration. May cause cardiovascular effects. May cause pulmonary edema. May affect the urinary system. May affect the liver.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May cause abdominal discomfort.

Chronic Potential Health Effects:

Component

Amyl Acetate
628-63-7 (100)

Carcinogen Status:

No information available

Target Organs:

Skin. Central nervous system. Peripheral nervous system. Respiratory system. Liver.

Mutagenic Effects:

No information available

Teratogenic Effects:

No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|--------------|----------|----------|
| Amyl Acetate | 628-63-7 | 100 |

4. FIRST AID MEASURES

| | |
|----------------------------|---|
| General Advice: | Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126) |
| Skin Contact: | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. |
| 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. |
| Notes to Physician: | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

Flammable Properties

| | |
|----------------------------|-------------------|
| 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 |
|--|---------------|

| | |
|--|--|
| Suitable Extinguishing Media: | Carbon dioxide (CO ₂). 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. |
| 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 Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

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.

6. ACCIDENTAL RELEASE MEASURES

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 for Cleaning Up:

Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

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.

Storage**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

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.

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.

National occupational exposure limits**United States**

U.S Occupational Exposure Limits: Not determined

| Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------|--|-----------------------------|----------------|------------|
| Amyl Acetate - 628-63-7 | = 100 ppm TWA = 525 mg/m ³ TWA | = 525 mg/m ³ TWA | = 100 ppm STEL | None |

Canada

Canada Occupational Exposure Limits: Not determined

| Components | Alberta | British Columbia | Ontario | Quebec |
|--------------------------|---|------------------|---|---|
| Amyl Acetate 628-63-7 | = 266 mg/m ³ TWA = 50 ppm TWA | = 50 ppm TWA | 50 ppm TWA 100 ppm STEL (listed under Pentyl acetate, all isomers) | 50 ppm TWAEV 266 mg/m ³ TWAEV 100 ppm STEV 532 mg/m ³ STEV |

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

| Components | Australia | Mexico |
|--------------------------|---|--|
| Amyl Acetate 628-63-7 | 541 mg/m ³ STEL 100 ppm STEL 50 ppm TWA 270 mg/m ³ TWA | = 100 ppm TWA = 530 mg/m ³ TWA |

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|--|---|
| Physical state: Liquid. | Appearance: No information available | Color: Colorless. |
| Odor: Banana-like. | Taste No information available | Molecular/Formula weight: 130.19 |
| Flash point (°C): 16 | Lower Explosion Limit (%): 1.1% | Upper Explosion Limit (%): 7.5% |
| Autoignition Temperature (°C/°F): 360 °C/680 °F | Melting point/range(°C/°F): -70.8 °C/-95.44 °F | Boiling point/range(°C/°F): 140-150 °C/284-302 °F |
| pH: No information available | Specific gravity: 0.874-0.879 @ 20 °C | Density (g/cm3): No information available |
| Decomposition temperature(°C/°F): 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 | 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

| | |
|--|--|
| Stability: | Stable at normal conditions |
| Conditions to avoid: | Heat. Ignition sources. |
| Incompatible Materials: | Oxidizing agents. Bromine. Chlorine. Fluorine. Bases. Acids. |
| Hazardous decomposition products: | Carbon monoxide. Carbon dioxide. |
| Possibility of Hazardous Reactions: | No information available |
| Polymerization: | Hazardous polymerisation does not occur |
| Corrosivity: | No information available |
| Special Remarks on Corrosivity: | No information available |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Amyl Acetate - 628-63-7

LD50/oral/rat = > 1600 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = 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

LC50/inhalation/rat >3000 ppm 6 h
LC50/Inhalation/mouse No information available
LD50/dermal/rabbit No information available
LD50/dermal/rat No information available
LD50/oral/mouse = No information available
LD50/oral/rat = > 1600 mg/kg mg/kg

Local Effects

Skin irritation: May cause skin irritation. May cause mild to moderate skin irritation.

Eye irritation: Causes eye irritation. Mild eye irritation. May cause conjunctivitis. May cause conjunctival irritation.

Inhalation: Irritating to respiratory system
May cause conjunctival irritation
Symptoms may include coughing and wheezing
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 respiration
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 diarrhoea. May cause abdominal discomfort.

Sensitization: No information available

Chronic Toxicity

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.

Carcinogenic effects:

Not considered carcinogenic

| Components | NTP | IARC | OSHA HCS - Carcinogens | ACGIH - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|--------------|------------|------------|------------------------|---------------------|--|--|
| Amyl Acetate | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

Mutagenic Effects:

No information available

Reproductive Effects:

No information available

Teratogenic Effects:

No information available

Target Organs:

Skin. Central nervous system. Peripheral nervous system. Respiratory system. Liver.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals:

Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects:

Aquatic environment.

Aquatic toxicity:

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

65 mg/l LC50 *Gambusia affinis* (Western mosquitofish) 48 h and 96 h

Water Flea Data:

210 mg/l LC50 *Daphnia magna* 24 h

Mobility:

No information available

Persistence and degradability:

No information available

Bioaccumulative potential:

No information available

13. DISPOSAL CONSIDERATIONS

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: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Packing Group: III
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: 129
DOT RQ (lbs): No information available
Symbol(s): R5

TDG (Canada)

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

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: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Packing Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-E
MFAG: No information available
Maximum Quantity: No information available

RID

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

ICAO

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

IATA

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

15. REGULATORY INFORMATION

International Inventories

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

U.S. Regulations

Amyl Acetate

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: Present
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
RI RTK - Hazardous Substances List: Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
 = 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 | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------------|------------|------------------------|----------------------------|-------------------------------|
| <i>Amyl Acetate</i> | 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 | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting <i>de minimis</i> |
|---------------------|---|---|--|---------------------------------|---|
| <i>Amyl Acetate</i> | = 2270 kg final RQ = 5000 lb final RQ | None | 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 hazard class:

B2 Flammable liquid

Amyl Acetate

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 | Canada (DSL) | Canada (NDSL) |
|--------------|--------------|---------------|
| Amyl Acetate | Present | Not Listed |

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

EU Classification

R-phrases(s)

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

S -phrase(s)

S2 - 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 Phrases |
|--------------|----------------|-----------------------|----------------|
| 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

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 14-Apr-2014

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

SAFETY DATA SHEET

Preparation Date: 4/14/2014

Revision Date: 4/14/2014

Revision Number: G1

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
Birrenoel
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 Chemicals and Laboratory Products, Inc.
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: Regina Wachenheim (East Coast)

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 |

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

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/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % | Trade Secret |
|------------|---------|----------|--------------|
|------------|---------|----------|--------------|

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | | |
|--------------------------|----------|-----|---|
| Amyl Acetate 628-63-7 | 628-63-7 | 100 | * |
|--------------------------|----------|-----|---|

4. FIRST AID MEASURES

First aid measures

General Advice:

Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

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

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

United States

| Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------|--|-----------------------------|----------------|------------|
| Amyl Acetate - 628-63-7 | = 100 ppm TWA = 525 mg/m ³ TWA | = 525 mg/m ³ TWA | = 100 ppm STEL | None |

Canada

Canada Occupational Exposure Limits: Not determined

| Components | Alberta | British Columbia | Ontario | Quebec |
|-------------------------|---|------------------|---|---|
| Amyl Acetate - 628-63-7 | = 266 mg/m ³ TWA = 50 ppm TWA | = 50 ppm TWA | 50 ppm TWA 100 ppm STEL (listed under Pentyl acetate, all isomers) | 50 ppm TWAEV 266 mg/m ³ TWAEV 100 ppm STEV 532 mg/m ³ STEV |

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

| Components | Australia | Mexico |
|--------------------------|---|--|
| Amyl Acetate 628-63-7 | 541 mg/m ³ STEL 100 ppm STEL 50 ppm TWA 270 mg/m ³ TWA | = 100 ppm TWA = 530 mg/m ³ TWA |

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

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 bases
Reactive with acids

Chemical stability

Stability: Stable at normal 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 = > 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 = >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 diarrhoea. 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 | ACGIH - Carcinogens | IARC | NTP | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|--------------|---------------------|------------|------------|------------------------|--|--|
| Amyl Acetate | Not listed | Not listed | Not listed | 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.

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
65 mg/l LC50 Gambusia affinis (Western mosquitofish) 48 h and 96 h
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: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Subsidiary Risk: Not applicable
Packing Group: III
Marine Pollutant: No data available
ERG No: 129
DOT RQ (lbs): No information available
Symbol(s): R5

TDG (Canada)

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

ADR

UN-No: UN1104
Proper Shipping Name: Amyl acetates
Hazard Class: 3
Packing Group: III

14. TRANSPORT INFORMATION

Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
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
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-E
MFAG: No information available
Maximum Quantity: No information available

RID

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

ICAO

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

IATA

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

15. REGULATORY INFORMATION

International Inventories

| Components | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|---------------------|-----------|------------|---------------------|-----------------|---------|------------------|-------------------|
| <i>Amyl Acetate</i> | Present | 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: Present
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
RI RTK - Hazardous Substances List: Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
= 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 | 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 | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting <i>de minimis</i> |
|--------------|---|---|--|---------------------------------|---|
| Amyl Acetate | = 2270 kg final RQ = 5000 lb final RQ | None | 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 hazard class:

B2 Flammable liquid

Amyl Acetate

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 | Canada (DSL) | Canada (NDSL) |
|--------------|--------------|---------------|
| Amyl Acetate | Present | Not Listed |

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

EU Classification

R-phrases

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

S-phrases

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 Phrases |
|--------------|----------------|-----------------------|----------------|
| 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

16. OTHER INFORMATION

| NFPA | HMIS | Personal Protective Equipment |
|------|------|-------------------------------|
|------|------|-------------------------------|



| | |
|---------------|---|
| Health Hazard | 1 |
| Fire Hazard | 3 |
| Reactivity | 0 |



See Section 8.

Preparation Date: 4/14/2014
Revision Date: 4/14/2014
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 Material Safety Data Sheet