

# MATERIAL SAFETY DATA SHEET

<b>NFPA</b>	<b>HMIS</b>	<b>Personal Protective Equipment</b>						
	<table border="1" style="margin: auto;"> <tr><td style="background-color: #0056b3; color: white;">Health Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="background-color: #ff0000; color: white;">Fire Hazard</td><td style="text-align: center;">2</td></tr> <tr><td style="background-color: #ffff00; color: black;">Reactivity</td><td style="text-align: center;">0</td></tr> </table>	Health Hazard	1	Fire Hazard	2	Reactivity	0	
Health Hazard	1							
Fire Hazard	2							
Reactivity	0							
<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">See Section 8.</div>								

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
<b>Product code:</b>	H2212
<b>Product Name:</b>	HEXYL ACETATE
<b>Chemical Name:</b>	Acetic acid, hexyl ester
<b>Synonyms:</b>	Hexyl alcohol, acetate Hexyl ethanoate l-Hexyl acetate n-Hexyl acetate
<b>Recommended use:</b>	Solvent for cellulose esters and other resins Fragrance ingredient
<b>CAS #:</b>	142-92-7
<b>Formula:</b>	C8-H16-O2
<b>RTECS #</b>	AI0875000
<b>CI#:</b>	Not available
<b>Supplier:</b>	Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
<b>Emergency Telephone Number:</b>	CHEMTREC: 1-800-424-9300
<b>Contact Person:</b>	Martin LaBenz (West Coast)
<b>Contact Person:</b>	Chris Terpak (East Coast)

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
WARNING FLAMMABLE!. May cause skin and eye irritation. May cause irritation of respiratory tract.			
<b>Odor:</b>	<b>Physical state:</b>	<b>Appearance:</b>	<b>Color:</b>
Fruity. Pear-like. Sweet. Ester-like.	Liquid.	No information available	Colorless.

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

## 2. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**Principal Routes of Exposure:**

Skin. Eyes. Ingestion.

**Acute Potential Health Effects:****Skin Contact:**

Substance may cause slight skin irritation. It may be absorbed through the skin.

**Eye Contact:**

May cause slight irritation.

**Inhalation:**

May cause irritation of respiratory tract.

**Ingestion:**

May cause digestive (gastrointestinal) tract irritation. May cause nausea. May cause central nervous system effects.

**Chronic Potential Health Effects:**

**Target Organs:** No information available

**Carcinogen Status:** No information available

**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 %
Hexyl Acetate	142-92-7	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 irritation occurs. 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

<b>Flashpoint (°C/°F):</b>	43-45 °C/109.4-113 °F
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<b>Lower Explosion Limit (%):</b>	No information available
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<b>Upper Explosion Limit (%):</b>	No information available
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<b>Autoignition Temperature (°C/°F):</b>	No information available
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**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam. For larger fires, flood with water.

**Unsuitable Extinguishing Media:** High volume water jet. 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).

**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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions:

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. 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.

### 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. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. 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. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Products:**

Oxidizing agents. Bases.

## 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. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

**National occupational exposure limits****United States**

U.S Occupational Exposure Limits: Not determined

**Canada**

Canada Occupational Exposure Limits:

Components	Alberta	British Columbia	Quebec	Ontario
Hexyl Acetate 142-92-7	Not determined	Not determined	Not determined	= 294 mg/m <sup>3</sup> TWAEV = 50 ppm TWAEV

**Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Appearance:**

No information available

**Color:**

Colorless.

**Odor:**

Fruity. Pear-like. Sweet. Ester-like.

**Taste**

Bittersweet. Suggestive of pear.

**Molecular weight:**

144.21

**Flash point (°C) :**

43

**Lower Explosion Limit (%):**

No information available

**Upper Explosion Limit (%):**

No information available

**Autoignition Temperature (°C/°F):**

No information available

**pH:**

No information available

**Boiling point/range(°C/°F):**

168-171.5 °C/334.4-340.7 °F

**Melting point/range(°C/°F):**

-80 - -80.9 °C/-112 - -113.62 °F

**Decomposition temperature(°C/°F):**

No information available

**Specific gravity:**

0.86-0.88 @ 15 to 20 °C

**Density (g/cm<sup>3</sup>):**

No information available

**Bulk density:**

No information available

**Vapor pressure @ 20°C (kPa):**

0.18-0.5

**Vapor density:**

4.97

**Evaporation rate:**

No information available

**VOC content (g/L):**

No information available

**Odor threshold (ppm):**

No information available

**Partition coefficient**

**(n-octanol/water):**

No information available

**Miscibility:**

Immiscible in water

**Solubility:**

Practically insoluble in water

Solubility in Water: 511 mg/L @ 25 deg. C

Very soluble in Ethanol

Very soluble in Ether

## 10. STABILITY AND REACTIVITY

**Stability:**

Stable at normal conditions

**Conditions to avoid:**

Heat. Ignition sources.

**Materials to avoid:**

Oxidising agents. Bases.

**Hazardous decomposition products:**

Carbon dioxide. Carbon monoxide.

**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

Hexyl Acetate - 142-92-7

**LD50/oral/rat** = = 41500 µL/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = > 5 g/kg Dermal LD50 Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available

## Product Information

**LC50/inhalation/rat** = No information available  
**LC50/Inhalation/mouse** = No information available  
**LD50/dermal/rabbit** = > 5 g/kg  
**LD50/dermal/rat** = Not information available  
**LD50/oral/rat** = 41500 µL/kg  
**LD50/oral/mouse** = No information available

## Local Effects

**Skin irritation:** Mild skin irritation.  
**Eye irritation:** Mild eye irritation.  
**Inhalation:** May cause irritation of respiratory tract  
**Ingestion:** May cause digestive (gastrointestinal) tract irritation. May cause nausea. May affect behavior/central nervous system (dizziness, headache).  
**Sensitization:** No information available

## Chronic Toxicity

**Chronic Toxicity** No information available  
**Carcinogenic effects:** No information available  
**Mutagenic Effects:** No information available  
**Reproductive Effects:** No information available  
**Teratogenic Effects:** No information available  
**Target Organs:** No information available

## 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:**

Hexyl Acetate - 142-92-7

**Freshwater Fish Species Data:** 3.7-4.4 mg/L LC50 Pimephales promelas 96 h flow-through 1

**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
Hexyl Acetate	None	None	None	None

### 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** UN3272  
**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**Hazard Class:** 3  
**Packing Group:** III  
**Subsidiary Risk:** Not applicable  
**Marine Pollutant:** No data available  
**ERG No:** 128  
**DOT RQ (lbs):** No information available

**TDG (Canada)**

**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**UN-No:** UN3272  
**Hazard Class:** 3  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** No information available

**ADR**

**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**UN-No:** UN3272  
**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**

**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**UN-No:** UN3272  
**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**

**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**UN-No:** UN3272  
**Hazard Class:** 3  
**Packing Group:** III  
**Subsidiary Risk:** 3  
**Classification Code:** No information available  
**Description:** No information available

**ICAO**

**UN-No:** UN3272  
**Hazard Class:** 3  
**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** No information available

**IATA**

**Proper Shipping Name:** Ester, n.o.s. (Hexyl acetate)  
**UN-No:** UN3272  
**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.
Hexyl Acetate	Present	Present	KE-00050	2-734 2-735	Present	Present	205-572-7

**U.S. Regulations**

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

WARNING: This product contains a chemical known to the State of California to cause cancer. (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:
Hexyl 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>
Hexyl Acetate	None	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
Hexyl Acetate	Not Applicable	Not Applicable

#### Canada

##### WHMIS hazard class:

B3 Combustible liquid

Components	WHMIS Ingredient Disclosure List -
Hexyl Acetate	1 %

#### Inventory

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

#### EU Classification

##### R -phrase(s)

R10 - Flammable.

##### S -phrase(s)

S16 - Keep away from sources of ignition - No smoking.

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 Z400.1-2004 standards.

Revision date: 16-Mar-2010

Reason for revision: Not applicable

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

**Prepared by:** Health & Safety

**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.