

# SAFETY DATA SHEET

**Preparation Date:** No data available

**Revision Date:** 06/04/2015

**Revision Number:** G1

**Product identifier**

**Product code:** B1182  
**Product Name:** N-BUTYL ACETATE, REAGENT, ACS

**Other means of identification**

**Synonyms:** No information available  
**CAS #:** 123-86-4  
**RTECS #** AF7350000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**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 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 mild skin irritation

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

May be harmful if inhaled

### 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 CO<sub>2</sub>, 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
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Butyl Acetate 123-86-4	123-86-4	100	*
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### 4. FIRST AID MEASURES

#### First aid measures

#### **General Advice:**

Poison information centers 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 skin irritation persists, call a physician.

#### **Eye Contact:**

Flush eye with water for 15 minutes. Get medical attention.

#### **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. Obtain medical attention.

#### **Most important symptoms and effects, both acute and delayed**

#### **Symptoms**

Causes eye irritation. May cause irritation of respiratory tract. Dizziness. Drowsiness. Mild skin irritation.

#### **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 (CO<sub>2</sub>). 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 oxides

#### **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 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. Dike fire-control water for later disposal; do not scatter the material.

**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 product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**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). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**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. Store away from incompatible materials. Keep away from heat and sources of ignition.

**Incompatible Materials:**

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

## National occupational exposure limits

### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Butyl Acetate - 123-86-4	150 ppm TWA 710 mg/m <sup>3</sup> TWA	= 150 ppm TWA	= 200 ppm STEL	None

### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Butyl Acetate - 123-86-4	= 150 ppm TWA = 713 mg/m <sup>3</sup> TWA	= 20 ppm TWA	150 ppm TWA	150 ppm TWAEV 713 mg/m <sup>3</sup> TWAEV 200 ppm STEV 950 mg/m <sup>3</sup> STEV

### Australia and Mexico

Components	Australia	Mexico
Butyl Acetate 123-86-4	950 mg/m <sup>3</sup> STEL 200 ppm STEL 150 ppm TWA 713 mg/m <sup>3</sup> TWA	= 150 ppm TWA = 710 mg/m <sup>3</sup> 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 Safety glasses with side-shields
- Skin and body protection:** Chemical resistant apron. Gloves. Long sleeved clothing.
- Respiratory protection:** Vapor respirator. 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

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<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available	<b>Color:</b> No information available
<b>Odor:</b> No information available	<b>Taste:</b> No information available	<b>Molecular/Formula weight:</b> 116.16
<b>Formula:</b> C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	<b>Flash point (°C):</b> No data available	<b>Flashpoint (°C/°F):</b> Closed cup: 23.9°C/75°F; Open cup: 37°C/98.6°F
<b>Flash Point Tested according to:</b> Not available	<b>Lower Explosion Limit (%):</b> 1.7	<b>Upper Explosion Limit (%):</b> 7.6
<b>Autoignition Temperature (°C/°F):</b> 421°C/789.8°F	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> -77.9°C/-108.2°F
<b>Boiling point/range(°C/°F):</b> 126.5°C/259.7°F	<b>Decomposition temperature(°C/°F):</b> No information available	<b>Bulk density:</b> No information available
<b>Specific gravity:</b> 0.9	<b>Vapor pressure @ 20°C (kPa):</b> 1.3	<b>Density (g/cm<sup>3</sup>):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 4.01	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 0.31	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Partially soluble in cold water	

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### 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.

**Incompatible Materials:** No information available

**Hazardous decomposition products:** Carbon oxides.

### 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:**

Eyes. Ingestion. Inhalation.

**Acute Toxicity****Component Information***Butyl Acetate - 123-86-4***LD50/oral/rat** = = 10768 mg/kg Oral LD50 Rat**LD50/oral/mouse** = 6 gm/kg Oral LD50 Mouse**LD50/dermal/rat** = No information available**LD50/dermal/rabbit** = 17600 mg/kg Dermal LD50Rabbit**LC50/inhalation/rat** = 390 ppm Inhalation LC50 Rat 4 h**LC50/inhalation/mouse** = 6 gm/m<sup>3</sup> Inhalation LC50 Mouse 4H**Other LD50 or LC50information** = No information available**Product Information****LD50/oral/rat** =**VALUE- Acute Tox Oral** = 10768mg/kg**LD50/oral/mouse** =**Value - Acute Tox Oral** = 6g/kg**LD50/dermal/rabbit****VALUE-Acute Tox Dermal** = 17600mg/kg**LD50/dermal/rat****VALUE -Acute Tox Dermal** = No information available**LC50/inhalation/rat****VALUE-Vapor** = 390ppm (4-hr)**VALUE-Gas** = No information available**VALUE-Dust/Mist** = No information available**LC50/Inhalation/mouse****VALUE-Vapor** = 6 g/m<sup>3</sup>/4h**VALUE - Gas** = No information available**VALUE - Dust/Mist** = No information available**Symptoms****Skin Contact:** It may cause mild skin irritation.**Eye Contact:** Causes eye irritation.**Inhalation** May cause respiratory tract irritation. May cause drowsiness/sleepiness. May cause dizziness and headache.**Ingestion** May cause digestive/gastrointestinal tract irritation.**Aspiration hazard** No information available**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available**Sensitization:** No information available**Product code:** B1182**Product name:** N-BUTYL ACETATE,  
REAGENT, ACS**7 / 12**

**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
Butyl 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:** Lungs. Mucous membrane. Nervous system.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity effects:** No data available.

*Butyl Acetate - 123-86-4*

**Freshwater Algae Data:** 674.7 mg/L EC50 *Desmodesmus subspicatus* 72 h

**Freshwater Fish Species Data:** 100 mg/L LC50 *Lepomis macrochirus* 96 h static 1  
17-19 mg/L LC50 *Pimephales promelas* 96 h flow-through 1  
62 mg/L LC50 *Leuciscus idus* 96 h static 1

**Water Flea Data:** 72.8 mg/L EC50 *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
Butyl Acetate	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** UN1123  
**Proper Shipping Name:** Butyl acetates  
**Hazard Class:** 3  
**Subsidiary Risk:**  
**Packing Group:** III  
**ERG No:** 129  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Symbol(s):** R5

### TDG (Canada)

**UN-No:** UN1123  
**Proper Shipping Name:** Butyl acetates  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** No information available

### ADR

**UN-No:** UN1123  
**Proper Shipping Name:** Butyl 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:** UN1123  
**Proper Shipping Name:** Butyl 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:** UN1123  
**Proper Shipping Name:** Butyl acetates  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Classification Code:** No information available

## 14. TRANSPORT INFORMATION

**Description:** No information available

### ICAO

**UN-No:** UN1123  
**Proper Shipping Name:** Butyl acetates  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** No information available

### IATA

**UN-No:** UN1123  
**Proper Shipping Name:** Butyl 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>Butyl Acetate</i>	Present	Present KE-04179	Present	Present (2)-731	Present	Present	Present 204-658-1

### U.S. Regulations

#### *Butyl Acetate*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1329  
**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  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
= 100 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present

**FDA - Direct Food Additives** 21 CFR 172.515

**FDA - 21 CFR - Total Food Additives** 172.515 175.105 175.320 177.1200

**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>Butyl 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>
Butyl Acetate	= 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
Butyl Acetate	Not Applicable	Not Applicable

#### Canada

##### WHMIS hazard class:

B2 Flammable liquid  
D2B Toxic materials

##### Butyl Acetate

B2 D2B

##### 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 -
Butyl Acetate	1 %

#### Inventory

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

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

#### EU Classification

##### R-phrase(s)

R10 - Flammable.  
R20 - Harmful by inhalation.  
R36/38 - Irritating to eyes and skin.

##### S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Butyl Acetate	R10 R66 R67	No information	S2 S25

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

**Indication of danger:**

Flammable

T - Toxic

**16. OTHER INFORMATION**

**Revision Date:** 06/04/2015  
**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**