



1/10

MATERIAL SAFETY DATA SHEET

NFPA HMIS Personal Protective Equipment



Health Hazard	1
Fire Hazard	3
Reactivity	0









See Section 8.

1. CHEMICAL PRODUCT AN	I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION					
Product code:	M2578					
Product Name:	2-METHYLBUTYL ACETATE					
Chemical Name:	1-Butanol, 2-methyl-, acetate					
Synonyms:	Methyl-1-butanol acetate;					
	ntyl acetate					
Recommended use:	No information available.					
CAS #:	624-41-9					
Formula:	C17-H14-O2					
RTECS #	EL5466666					
CI#:	Not available					
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.					
	14422 South San Pedro St.					
	Gardena, CA 90248					
	(310) 516-8000					
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300					
Contact Person:	Martin LaBenz (West Coast)					
Contact Person:	Chris Terpak (East Coast)					

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! FLAMMABLE LIQUID AND VAPOR. May cause skin and eye irritation. May cause irritation of respiratory tract.

Odor:Physical state:Appearance:Color:No information availableLiquid.No information availableClear. Colorless.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Product code: M2578 Product name: 2-METHYLBUTYL

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Skin. Inhalation.

Acute Potential Health Effects:

Skin Contact:

May cause skin irritation. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects.

Eye Contact:

Contact with eyes may cause irritation.

Inhalation:

May cause irritation of respiratory tract. May affect respiration.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May affect respiration. May cause central nervous system effects.

Chronic Potential Health Effects:

Component

2-Methylbutyl Acetate
624-41-9 (100)

Carcinogen Status:

No information available

Target Organs: No information available

Teratogenic Effects: No information available

Mutagenic 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 %
2-Methylbutyl Acetate	624-41-9	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 skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs.

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Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. 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):	35-36 °C/ 95-96.8 °F	
Tested according to:		

Tested according to:

Closed cup

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

Autoignition Temperature (°C/°F): Not applicable.

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam. Alcohol-resistant foam.

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.

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Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not let this chemical enter the environment. 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. Take precautionary measures against static discharges. 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 segrated and approved area. Store away from incompatible materials.

Incompatible Products:

Oxidizing agents.

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. Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Vapor respirator. 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> </u>				
Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	100 ppm STEL	None
2-Methylbutyl Acetate - 624-41-9			50 ppm TWA	

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ACETATE

Canada

Components	Alberta	British Columbia	Ontario	Quebec
2-Methylbutyl Acetate	None	50 ppm TWA	50 ppm TWA Pentyl	50 ppm TWAEV
624-41-9		100 ppm STEL	acetate, all isomers	266 mg/m ³ TWAEV
			100 ppm STEL Pentyl	100 ppm STEV
			acetate, all isomers	532 mg/m ³ STEV

Australia and Mexico

Components	Australia	Mexico
2-Methylbutyl Acetate	None	None
624-41-9		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Appearance:

Liquid. No information available Clear. Colorless.

Odor: **Taste** Molecular/Formula weight:

No information available No information available 130.19

Upper Explosion Limit (%): Flash point (°C): Lower Explosion Limit (%):

No information available No information available 141

pH: Autoignition Temperature (°C/°F):

Melting point/range(°C/°F): No information available No information available No information available

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Specific gravity:

140-141°C/284-285.8 °F No information available No information available

Density (g/cm3): **Bulk density:** Vapor pressure @ 20°C (kPa): 0.876 @ 25 °C No information available 0.8459 @ 25 °C (calculated)

Evaporation rate: Vapor density: VOC content (g/L):

No information available No information available No information available

Partition coefficient Odor threshold (ppm): Miscibility:

No information available No information available (n-octanol/water):

2.26

Solubility:

Solubility in Water: 1,070 - 2,260 mg/L

@ 25 °C (calculated)

10. STABILITY AND REACTIVITY

Stable at normal conditions Stability:

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Materials to avoid: Oxidising agents.

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide.

Possibility of Hazardous

Reactions:

No information available

Polymerization: Hazardous polymerisation does not occur

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Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

2-Methylbutyl Acetate - 624-41-9

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information =

No information available

Product Information

LC50/inhalation/rat = No information available LC50/Inhalation/mouse = No information available LD50/dermal/rabbit = No information available LD50/oral/mouse = No information available

LD50/oral/rat = No information available

Local Effects

Skin irritation: May cause skin irritation.

Eye irritation: Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract. May affect respiration. May cause dyspnea

(difficulty breathing or shortness of breath).

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. It

may affect behavior/central nervous system (drowsiness). May affect respiration

(respiratory depression). May cause lacrimation.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Repeated or prolonged skin contact may cause dryness and cracking of the skin.

Carcinogenic effects: Not considered carcinogenic

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

Mutagenic Effects: No information available

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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: No information available

Ecotoxicity effects: No data available.

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: Low 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
2-Methylbutyl 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 applicableMarine PollutantNo 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 availableDescription:No information available

ADR

UN-No: UN1104
Proper Shipping Name: Amyl acetates

Product code: M2578 Product name: 2-METHYLBUTYL 7/10

Hazard Class: 3
Packing Group: III

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC 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 availableDescription:No information availableIMDG Page:No information availableMarine PollutantNo 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 availableDescription: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.
2-Methylbutyl Acetate	Present	Present	KE-23579	2-733 2-735 2-733	Present	Present	210-843-8

U.S. Regulations

Product code: M2578 Product name: 2-METHYLBUTYL 8 / 10

California Prop. 65: Safe Drinking Water and Toxic Enforcment 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	Female Reproductive
			Toxicity	Toxicity:
2-Methylbutyl Acetate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	CERCLA - Hazardous Substances and their		Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
2-Methylbutyl Acetate	None	None	None	None	None

U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2-Methylbutyl Acetate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

B2 Flammable liquid

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.

Inventory

Components		Canada (NDSL)
2-Methylbutyl Acetate	Present	Not Listed

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

EU Classification

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.

Product code: M2578 Product name: 2-METHYLBUTYL 9 / 10

Components	Classification	Safety Phrases
2-Methylbutyl Acetate	R10	S2 S23 S25
	R66	

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

Indication of danger:

Product code: M2578

Flammable

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.

Preparation Date 13-Aug-2012

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.

Product name: 2-METHYLBUTYL

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