spectrum®



SAFETY DATA SHEET

Preparation Date: 10/15/2019

Revision date 10/15/2019

Revision Number: G1

1. IDENTIFICATION Product identifier Product code: M1678 MENTHYL ACETATE **Product Name:** Other means of identification (1alpha,2beta,5alpha)-5-Methyl-2-(1-methylethyl)cyclohexanol acetate Synonyms: CAS #: 89-48-5 **RTECS #** Not available Not available CI#: Recommended use of the chemical and restrictions on use Recommended use: No information available. No information available Uses advised against Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 Order Online At: https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Emergency telephone number Tom Tyner (USA - West Coast) Contact Person: Ibad Tirmiz (USA - East Coast) **Contact Person:**

2. HAZARDS IDENTIFICATION

Classification

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

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

Flammable liquids	Category 4

Label elements

Warning

Combustible liquid

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Menthyl Acetate	89-48-5	100

mentifyiriteetate			
	4. FIRST AID MEASURES		
First aid measures			
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.		
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing ar shoes. Get medical attention if irritation develops. Consult a physician if necessary.		
Eye Contact:	Flush eyes 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.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Health injuries are not known or expected under normal use		
Indication of any immediate medic	al 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:	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol-resistant foam.		
Unsuitable Extinguishing Media: High volume water jet. Do not use a solid (straight) stream as it may scatter and spread fire.			

Specific hazards arising from the chemical

Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2).
Specific hazards	Combustible material. 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). Container explosion may occur under fire conditions or when heated. When heated to decompositon it emits acrid smoke and irritating fumes. May be ignited by heat, sparks or flames.
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:	Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for conta	inment 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), then place in a suitable chemical waste container. 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 clean non-sparking tools to collect absorbed material. 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. 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.

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:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Menthyl Acetate	89-48-5	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Menthyl Acetate	89-48-5	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Menthyl Acetate	89-48-5	None	None

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 or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	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.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: No information available.

198.30

Flash Point Tested according to: Closed cup

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): 228-229°C/442-444°F

Specific gravity: 0.922

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Appearance: No information available.

Taste No information available.

Molecular/Formula weight (g/mole): Flammability (solid, gas) no data available

> Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): <-20°C/ <-4°F

Bulk density: No information available

рH No information available

Vapor density: No information available

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

Solubility: No information available

10. STABILITY AND REACTIVITY

Color: Colorless.

Formula C12H22O2

Flashpoint (°C/°F): 92°C/198°F

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): No information available

Density (g/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

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:	Strong oxidizing agents
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: Skin. Eyes. Inhalation.

Acute Toxicity

Component Information

Menthyl Acetate			
CAS No	89-48-5		
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 information available			
Other LD50 or LC50informat	ion = No information available		
Product Information			
LD50/oral/rat = Value - Acute Toxicity = No info	rmation available		
LD50/oral/mouse = Value - Acute Tox = No informat	ion available		
LD50/dermal/rabbit Value - Acute Toxicity = No info	LD50/dermal/rabbit Value - Acute Toxicity = No information available		
LD50/dermal/rat VALUE - Acute Tox = No inform	ation available		
LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available 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.		
Eye Contact:	May cause eye irritation.		
Inhalation	May cause irritation of respiratory tract.		
Ingestion	Health injuries are not known or expected under normal use.		
Aspiration hazard	Aspiration hazard No information available.		

Product code: M1678

Product name: MENTHYL ACETATE

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Menthyl Acetate	89-48-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects: Developmental Effects:	No information available 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:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Menthyl Acetate	89-48-5	None	None	None	None

14. TRANSPORT INFORMATION

DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
Dooonphon	
ADR	
UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available
IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
55 - F	
ICAO (air)	
UN-Nó:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available

Subsidiary Risk:	No information available
Packing Group:	No information available
ΙΑΤΑ	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response	
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Menthyl Acetate	89-48-5	PresentACTIV E	Not present	Present	Present (3)-2339	Present	Present	Present 201-911-8

U.S. Regulations

Menthyl Acetate FDA - Direct Food Additives 21 CFR 172.515 FDA - 21 CFR - Total Food Additives 172.515, 182.20 - List Sourced from EAFUS

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

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
					Reproductive
				Toxicity	Toxicity:
Menthyl Acetate	89-48-5	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Menthyl Acetate	89-48-5	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Menthyl Acetate	89-48-5	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Menthyl Acetate	89-48-5	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Menthyl Acetate	89-48-5	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Menthyl Acetate	89-48-5	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

	CAS No	EU GHS - SV - CLP (1272/2008)
Menthyl Acetate	89-48-5	

EU - CLP (1272/2008)

R-phrase(s)

Not determined

S -phrase(s)

none

	hrases	Safety	Concentration Limits:	ion	assificati	No	CAS No	nponent
Menthyl Acetate 89-48-5 No information			No information			-5	89-48-5	thyl Acetate

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

Indication of danger:

not determined

16. OTHER INFORMATION

Preparation Date:	10/15/2019
Revision date	10/15/2019
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.

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End of Safety Data Sheet