



SAFETY DATA SHEET

Preparation Date: 11/30/2016 Revision Date: Not Applicable Revision Number: Not Applicable

1. IDENTIFICATION

Product identifier

Product code: M1598

Product Name: 2-Methyl-1,3-dioxolane

Other means of identification

Synonyms: Methyldioxolane

1,3-Dioxolane, 2-methyl-

CAS #: 497-26-7
RTECS # JI3509000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: For manufacturing or laboratory use only.

Uses advised against Not for food or drug use.

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 numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

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

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

Label elements

Danger

Hazard statements

Causes serious eye irritation Highly flammable liquid and vapor

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed Causes mild skin irritation

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking 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

Wash face, hands and any exposed skin thoroughly after handling

Keep container tightly closed

Precautionary Statements - Response

IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO2 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

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
2-Methyl-1,3-dioxolane	497-26-7	100

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 and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes 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.

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Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Mild skin irritation. May be harmful if swallowed.

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: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

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: Highly flammable

May be ignited by heat, sparks or flames

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)

Container explosion may occur under fire conditions or

when heated

Fire may produce irritating 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

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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. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment 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 upUse 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. Take precautionary measures against static discharges. 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. Hygroscopic. Protect from moisture. Store under inert gas. Packed under Argon.

Incompatible Materials:

Strong oxidizing agents Strong acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
2-Methyl-1,3-dioxolane	497-26-7	None	None	None	None

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Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2-Methyl-1,3-dioxolane	497-26-7	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
2-Methyl-1,3-dioxolane	497-26-7	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

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: Gloves. Long sleeved clothing. Chemical resistant apron.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid Clear. Colorless to pale yellow.

Odor:TasteFormula:No information available.No information available.C4H8O2

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

88.11 Highly Flammable -2°C (28°F)

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Closed cup No information available 1.9

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

83°C (181°F) No information available 0.982

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available No information available 5.73

Evaporation rate:No information available

Vapor density:
No information available

VOC content (g/L):
No information available

Odor threshold (ppm): Partition coefficient

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

No information available
No information available

Miscibility: Solubility:

Miscible with water No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Hygroscopic. It absorbs moisture from the air

Chemical stability

Stability: Hygroscopic. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to moist air. Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Strong acids

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. Ingestion. Inhalation.

Acute Toxicity

Component Information

2-Methyl-1,3-dioxolane

CAS-No. 497-26-7

LD50/oral/rat = 2900 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available **LD50/dermal/rabbit** = No information available

LD30/dermai/rabbit = No iniormation availab

LD50/dermal/rat = 2900 mg/kg Oral LD50 **LC50/inhalation/rat** = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

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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 = 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: Mild skin irritation.

Eye Contact: Causes eye irritation.

Inhalation Irritating to respiratory system. Symptoms may include coughing and wheezing.

Other symptoms may include sore throat, chest tightness, coughing.

Ingestion May be harmful if swallowed.

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.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
2-Methyl-1,3-dioxolane	497-26-7	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:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

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Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
No information available.
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: 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	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Methyl-1,3-dioxolane	497-26-7	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1993

Proper Shipping Name: Flammable liquids, n.o.s. (2-Methyl-1,3-dioxolane)

Hazard Class: 3

Subsidiary Class No information available

Packing group: II Emergency Response Guide 128

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB2, T7, TP1, TP8, TP28Symbol(s):No information available

Description: UN1993, Flammable liquids, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

TDG (Canada)

UN-No: UN1993

Proper Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: ||

Marine Pollutant No Information available

Description: UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

Product code: M1598 Product name: 2-Methyl-1,3-dioxolane 8 / 11

ADR

UN-No: UN1993

Proper Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3
Packing Group: II
Subsidiary Risk: 3

Special Provisions 274, 601, 640D

Description: UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

IMO / IMDG

UN-No: UN1993

Proper Shipping Name: Butyl mercaptan

Flammable liquids, n.o.s. (2-Methyl-1,3-dioxolane)

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: ||

Marine Pollutant No information available

EMS: F-E Special Provisions 274

Description UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

RID

UN-No: UN1993

Proper Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: ||

Special Provisions 274, 601, 640D

Description: UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

ICAO

UN-No: UN1993

Proper Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: ||

Description: UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

Special Provisions A3

IATA

UN-No: UN1993

Proper Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
ERG Code: 3H

Special Provisions No information available

Description: UN1993, Flammable liquid, n.o.s. (2-Methyl-1,3-dioxolane), 3, II

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	1.1.	Japan ENCS	CHINA	Australia	EINECS-No.
				(PICCS)			(AICS)	
2-Methyl-1,3-dioxolane	497-26-7	Present	Not present	Not present	Not present	Not present	Not present	Present
								207-841-4

U.S. Regulations

Product code: M1598 Product name: 2-Methyl-1,3-dioxolane 9 / 11

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	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
2-Methyl-1,3-dioxolane	497-26-7	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
2-Methyl-1,3-dioxol	497-26-7	None	None	None	None	None
ane						

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
2-Methyl-1,3-dioxolane	497-26-7	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

B2 Flammable liquid

D2B Toxic materials

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	CAS-No.	Canada (DSL)	Canada (NDSL)
2-Methyl-1,3-dioxolane	497-26-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
2-Methyl-1,3-dioxolane	497-26-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
2-Methyl-1,3-dioxolane	497-26-7	Not listed

EU Classification

R-phrase(s)

R11 - Highly flammable.

R36/37/38 - Irritating to eyes, respiratory system and skin.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

Components	CAS-No.	Classification	Concentration	Safety Phrases

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		Limits:	
2-Methyl-1,3-dioxolane	497-26-7	No information	

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

Indication of danger:

F - Highly flammable.

Xi - Irritant.





16. OTHER INFORMATION

Preparation Date: 11/30/2016
Revision Date: Not Applicable
Prepared by: Roumann Pangilinan

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

Product code: M1598 Product name: 2-Methyl-1,3-dioxolane 11 / 11