


# SAFETY DATA SHEET

## 2-METHYLTETRAHYDROFURAN

### SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	96-47-9
<b>EC number:</b>	202-507-4
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"> <li>• Tetrahydro-2-methylfuran</li> <li>• 2-Methyloxolane</li> <li>• Tetrahydrosylvan</li> </ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids, (Category 2) Acute toxicity, oral (Category 4) Skin irritation, (Category 2) Serious eye damage, (Category 1)
<b>Hazard Pictograms:</b>	
<b>Signal Word:</b>	Danger
<b>Hazard statements:</b>	<b>H225:</b> Highly flammable liquid and vapor. <b>H302:</b> Harmful if swallowed. <b>H315:</b> Causes skin irritation. <b>H318:</b> Causes serious eye damage.
<b>Precautionary Statements:</b>	<b>P210:</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. <b>P233:</b> Keep container tightly closed.

	<p><b>P280:</b> Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>P301 + P312:</b> IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p><b>P303 + P361 + P353:</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p><b>P305 + P351 + P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.</p> <p><b>P405:</b> Store locked up.</p> <p><b>P501:</b> Dispose of contents/ container to an approved waste disposal plant.</p>
<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	may cause dizziness, drowsiness, headache, and respiratory tract irritation, and at high concentrations, may lead to central nervous system depression.
<b>Ingestion:</b>	may cause gastrointestinal irritation, nausea, vomiting, and central nervous system effects such as dizziness or drowsiness.
<b>Skin Contact:</b>	may cause irritation, dryness, or redness, and prolonged or repeated exposure can lead to dermatitis.
<b>Eye contact:</b>	may cause irritation, redness, tearing, and a burning sensation.
<b>Chronic Exposure:</b>	may lead to prolonged skin irritation, dermatitis, and potential effects on the central nervous system with repeated inhalation over time.
<b>Aggravation of pre-existing conditions:</b>	may aggravate pre-existing respiratory conditions, skin disorders, or neurological issues.

## SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 96-47-9 2-METHYLTETRAHYDROFURAN
<b>Identification number(s):</b>	EC number: 202-507-4

## SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>After skin contact:</b>	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
<b>After swallowing:</b>	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	The most important symptoms and effects, both acute and delayed, include dizziness, drowsiness, headache, respiratory and eye irritation from acute exposure, and potential central nervous system effects or skin sensitization with prolonged or repeated contact.

<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media:</b>	Carbon dioxide dry powder, Alcohol-resistant foam,
<b>5.2 Special hazards arising from the substance or mixture:</b>	Carbon oxides.
<b>5.3 Advice for firefighters:</b>	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
<b>5.4 further information:</b>	no data available

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
<b>6.2 Environmental precautions:</b>	Do not enter this chemical into drains.
<b>6.3 Methods and material for containment and cleaning up:</b>	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling:</b>	<p>For use in are with adequate ventilation.</p> <p>Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material</p> <p>Do not use in confined spaces.</p> <p>Electrostatic discharge protection.</p> <p>Minimize dust generation and accumulation. Avoid ingestion and inhalation.</p> <p>Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.</p>
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	<p>Store in original containers.</p> <p>Keep containers securely sealed</p> <p>Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.</p> <p>Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.</p>
<b>Requirements to be met by storerooms and receptacles:</b>	<p>Keep container tightly closed in a dry and well-ventilated place.</p> <p>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p>
<b>7.3 Specific end uses:</b>	no data available

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## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended.
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b> <b>General Information</b>	
<b>Appearance: Form:</b>	Liquid
<b>Colour:</b>	Clear, colorless
<b>Odour:</b>	Ether-like
<b>pH-value:</b>	Not applicable

<b>Melting point/Melting range:</b>	-136°C
<b>Boiling point/Boiling range:</b>	80°C
<b>Flammability (solid, gaseous):</b>	Highly flammable liquid
<b>Ignition temperature:</b>	215°C
<b>Decomposition temperature:</b>	Not determined
<b>Self-igniting:</b>	None
<b>Flash point:</b>	-11°C
<b>Danger of explosion:</b>	None
<b>Explosion limits: Lower:</b>	1.5%
<b>Explosion limits: Upper:</b>	12%
<b>Vapour pressure:</b>	150 mmHg at 20 °C
<b>Density at 20 °C:</b>	0.85 g/cm <sup>3</sup>
<b>Relative density:</b>	0.85
<b>Vapour density:</b>	3.0
<b>Evaporation rate:</b>	Not determined
<b>Solubility in / Miscibility with- water at 20 °C:</b>	Fully miscible
<b>Partition coefficient:(n- octanol/water)</b>	1.2
<b>Viscosity:</b>	0.45 mPa.s at 25 °C

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No hazardous reaction known.
<b>10.2 Chemical stability</b>	This chemical is stable under storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	May form explosive peroxides, especially upon exposure to air and light over time. No known hazardous polymerization.
<b>10.4 Conditions to avoid</b>	Heat, sparks, open flames, static discharge, prolonged exposure to air or sunlight.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, strong acids and bases. May react violently with some peroxides.
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide, carbon dioxide.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat): 2.000 mg/kg <b>LD50</b> (Dermal, Rabbit): 2.000 mg/kg <b>LC50</b> (Inhalation Rat): No data available
<b>Skin corrosion/Irritation:</b>	Causes skin irritation
<b>Serious eye damage/irritation:</b>	Causes serious eye damage
<b>Respiratory damage/irritation:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity - single exposure:</b>	No data available
<b>Specific target organ toxicity - repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	
<b>Biodegradability:</b>	Not biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity</b> <b>Aquatic toxicity:</b>	LC50(fish): 100 mg/l (96hr) EC50(daphnia): 139 mg/l (48hr) ErC50(algae): 104 mg/l (72hr)
<b>12.2 Persistence and degradability:</b>	Not Biodegradable
<b>12.3 Bioaccumulative potential:</b>	Low bioaccumulative
<b>12.4 Mobility in soil:</b>	High mobility
<b>12.5 Other adverse effects:</b>	No data available



## SECTION 13: Disposal considerations

13.1 Waste treatment methods	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations
<b>Recommended cleansing agents:</b>	Soap and water, isopropanol, sand.

## SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	2536
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	2-METHYLTETRAHYDROFURAN
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	3
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	2
<b>14.5 Environmental hazards:</b>	None
<b>14.6 Special precautions for user:</b>	Handle responsibly.

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is classified in listed substances as flammable substance.
<b>Named dangerous substances:</b>	This substance is not listed in the annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has not been carried out.

## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their

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