

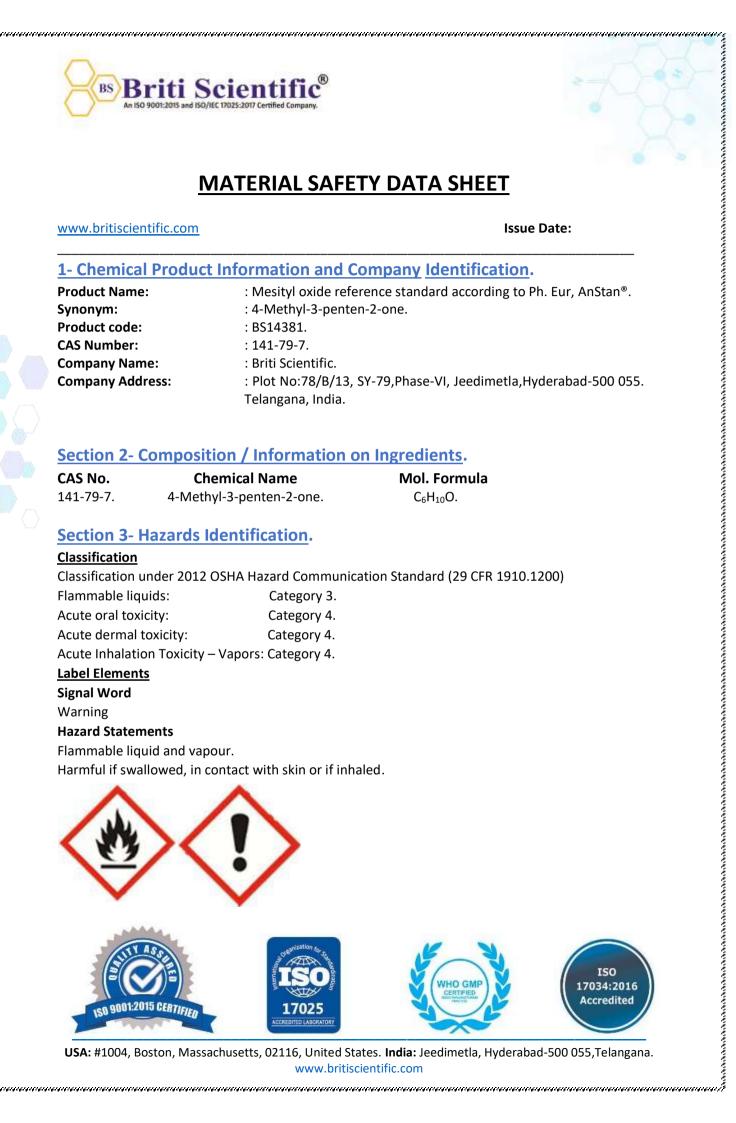


1- Chemical P	Product Information and Company Identification.
Product Name:	: Mesityl oxide reference standard according to Ph. E

Product Name:	: Mesity oxide reference standard according to Ph. Eur, Anstan [®] .
Synonym:	: 4-Methyl-3-penten-2-one.
Product code:	: BS14381.
CAS Number:	: 141-79-7.
Company Name:	: Briti Scientific.
Company Address:	: Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.
	Telangana, India.

CAS No.	Chemical Name	Mol. Formu
141-79-7.	4-Methyl-3-penten-2-one.	$C_6H_{10}O.$

Acute of al toxicity.	Category 4.
Acute dermal toxicity:	Category 4.
Acute Inhalation Toxicity – Vapor	rs: Category 4.







Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. 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. Inhalation **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. Skin Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction. Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None identified

Section 4- First Aid Measures.

General Advice: If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.



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Ingestion: Clean mouth with water and drink afterwards plenty of water. Most important symptoms and effects: Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Notes to Physician: Treat symptomatically

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water mist may be used to cool closed containers. Unsuitable Extinguishing Media: No information available.

Flash Point: 28°C/82.4°F. Method -No information available 340°C / 644°F. Autoignition Temperature:

Explosion Limits Upper 7.2%.

1.4%. Lower

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	1	N/A

Section 6- Accidental Release Measures.

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions: Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up:

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment

Section 7- Handling and Storage.

Handling: Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.



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Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines: Component:

Mesityl oxide

ACGIH TLV: TWA: 15 ppm STEL: 25 ppm

OSHA PEL:

(Vacated) TWA: 15 ppm (Vacated) TWA: 60 mg/m³ (Vacated) STEL: 25 ppm (Vacated) STEL: 100 mg/m³ **TWA:** 25 ppm **TWA:** 100 mg/m³

NIOSH IDLH:

IDLH: 1400 ppm **TWA:** 10 ppm **TWA:** 40 mg/m³

Mexico OEL (TWA):

TWA: 15 ppm STEL: 25 ppm

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Use explosionproof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: No protective equipment is needed under normal use conditions **Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice



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Section 9- Physical and Chemical Properties.

Appearance:	Colorless to Light yellow clear liquid.	
Odor:	Odorless.	
Odor Threshold:	No information available.	
pH:	No information available.	
Melting Point/Range:	-53°C.	
Boiling Point/Range:	130°C.	
Flash Point:	28°C/82.4°F.	
Evaporation Rate:	No information available.	
Flammability (solid,gas):	Not applicable.	
Flammability or explosive limits:		
Upper	7.2%.	
Lower	1.4%.	
Vapor Pressure:	No information available.	
Density:	1.6613	
Solubility:	Soluble in water.	
Partition coefficient; n-octanol/water: No data available.		
Autoignition Temperature:	340°C/644°F.	
Decomposition Temperature:	No data available.	
Viscosity:	No data available.	
Molecular:	$C_6H_{10}O.$	
Molecular Weight:	98.15 g/mol.	

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available Stability: Stable under normal conditions. Conditions to Avoid: Keep away from open flames, hot surfaces and sources of ignition. Incompatible Materials: Strong oxidizing agents. Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO₂). Hazardous Polymerization: Hazardous polymerization does not occur. Hazardous Reactions: None under normal processing.

Section 11- Toxicological Information.

Acute Toxicity Product Information: No acute toxicity information is available for this product. **Component Information Component:** Mesityl oxide LD50 Oral: LD50 = 655 mg/kg (Rat). LD50 = 1120 mg/kg (Rat).



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LD50 Dermal:

LD50 = 5151 mg/kg (Rabbit). LD50 = 5150 mg/kg (Rabbit).

LC50 Inhalation:

LC50 = 1130 ppm (Rat) 4h.

LC50 = 9 g/m3 (Rat) 4h.

Toxicologically Synergistic Products: No information available.

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

Irritation: No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Reproductive Effects: No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard: No information available.

Symptoms / effects, both acute and delayed: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12- Ecological Information.

Ecotoxicity: No information available

Persistence and Degradability: Insoluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation: No information available.

Mobility: Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

Section 13- Disposal Considerations.

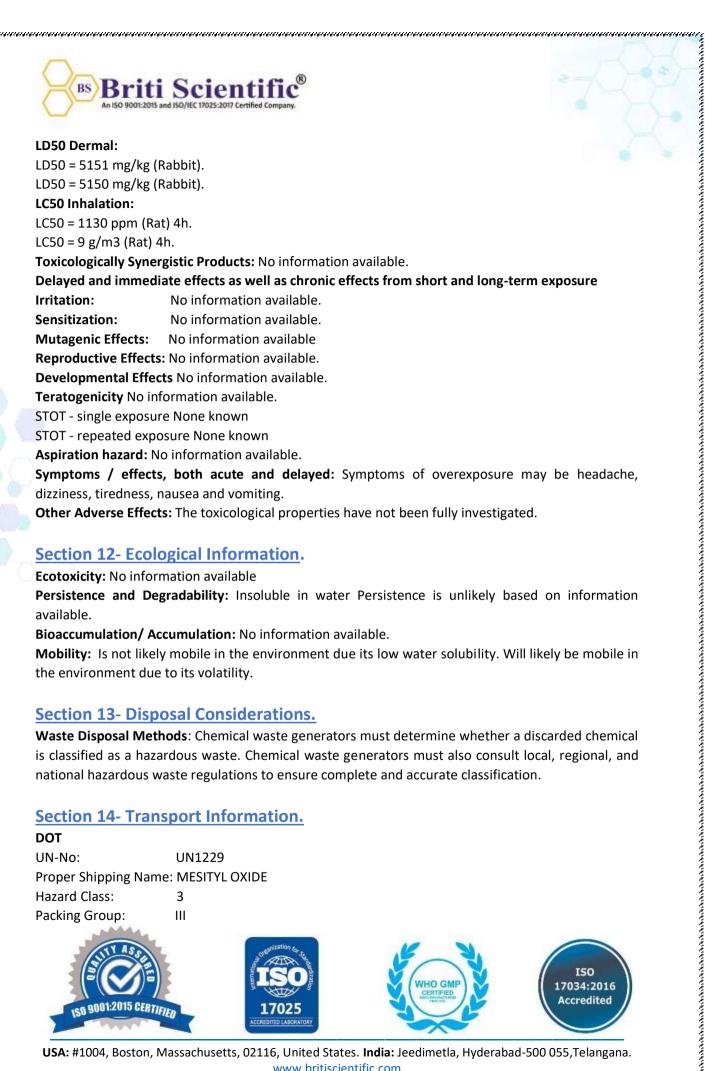
Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transport Information.

DOT UN-No: UN1229 Proper Shipping Name: MESITYL OXIDE Hazard Class: 3 ш Packing Group:



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TDG	
UN-No:	UN1229
Proper Shipping Name:	MESITYL OXIDE
Hazard Class:	3
Packing Group:	111
ΙΑΤΑ	
UN-No:	UN1229
Proper Shipping Name:	MESITYL OXIDE
Hazard Class:	3
Packing Group:	111
IMDG/IMO	
UN-No:	UN1229
Proper Shipping Name:	MESITYL OXIDE
Hazard Class:	3

Packing Group:

Section 15- Regulatory Information.

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Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed TSCA 12(b) - Notices of Export Not applicable. **U.S. Federal Regulations** SARA 313: Not applicable. SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act): Not applicable. Clean Air Act: Not applicable. **OSHA** - Occupational Safety and Health Administration: Not applicable. CERCLA: Not applicable. California Proposition 65: This product does not contain any Proposition 65 chemicals.

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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