MATERIAL SAFETY DATA SHEET

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1- Chemical Product Information and Company Identification.

Product Name: : 1-Methoxy-2-propanol GC reference Standard, AnStan®.
Synonym: : Propylene Glycol 1-Monomethyl Ether.
Product code: : BS14883.
CAS Number: : 107-98-2.
Company Name: : Briti Scientific.
Company Address: : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055. Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
107-98-2.	Propylene Glycol 1-Monomethyl Ether.	$C_4H_{10}O_2$.

Section 3- Hazards Identification.

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Flammable liquids: Category 3
Specific target organ toxicity (single exposure): Category 3
Target Organs - Central nervous system (CNS), Respiratory system

Label Elements

Signal Word

Warning

Hazard Statements

Flammable liquid and vapor.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention

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.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep cool.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

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: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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.

Ingestion: Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects: None reasonably foreseeable. 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 spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist maybe used to cool closed containers.

Unsuitable Extinguishing Media: No information available.

Flash Point: 30 °C / 86 °F.

Method - No information available.

Autoignition Temperature: 286 °C / 546.8 °F.

Explosion Limits

Upper 11.50 vol %

Lower 1.70 vol %

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flashback. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Vapors may form explosive mixtures with air.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO_2).

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	0	N/A

Section 6- Accidental Release Measures.

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

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. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and

sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents, Strong acids, Strong bases, Oxidizing agent.

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

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: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Section 9- Physical and Chemical Properties.

Appearance: Colorless clear liquid.
Odor: No information available.
Odor Threshold: No information available.
pH: No information available.
Melting Point/Range: -96 °C.
Boiling Point/Range: 120 °C.
Flash Point: No information available.
Evaporation Rate: No information available.
Flammability (solid,gas): Not applicable.
Flammability or explosive limits
Upper 11.50 vol %.
Lower 1.70 vol %.
Vapor Pressure: No information available.
Density: 0.921 g/cm^3.
Solubility: Soluble in water.
Partition coefficient; n-octanol/water: No data available.
Autoignition Temperature: 286 °C / 546.8 °F.

Decomposition Temperature: No data available.
Viscosity: No data available.
Molecular formula: $C_4H_{10}O_2$.
Molecular Weight: 90.12 g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available.
Stability: Stable under normal conditions.
Conditions to Avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials: Strong acids, Strong bases, Oxidizing agent.
Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO_2).
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	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Methoxy-1-propanol	LD50 = 5710 mg/kg (Rat)	LD50 = 5660 mg/kg (Rabbit)	Not listed

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: Contains ingredients that are suspected reproductive hazards.
Developmental Effects: No information available.
Teratogenicity No information available.
STOT - single exposure- Central nervous system (CNS) Respiratory system.
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.
Endocrine Disruptor Information: No information available.
Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12- Ecological Information.

Ecotoxicity: No information available

Persistence and Degradability: Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation: No information available.
Mobility: Will likely be mobile in the environment due to its water solubility.

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: UN3092
Proper Shipping Name: 1-METHOXY-2-PROPANOL
Hazard Class: 3
Packing Group: III
TDG
UN-No: UN3092
Proper Shipping Name: 1-METHOXY-2-PROPANOL
Hazard Class: 3
Packing Group: III
IATA
UN-No: UN3092
Proper Shipping Name: 1-METHOXY-2-PROPANOL
Hazard Class: 3
Packing Group: III
IMDG/IMO
UN-No: UN3092
Proper Shipping Name: 1-METHOXY-2-PROPANOL
Hazard Class: 3
Packing Group: III

Section 15- Regulatory Information.

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.