

MATERIAL SAFETY DATA SHEET

www.britisscientific.com

Issue Date:

1- Chemical Product Information and Company Identification.

Product Name: 2-Methyl-2-propanol, AnStan[®] GC Reference Standard.
Synonym: 1,1-Dimethylethanol.
Product code: BS11894.
CAS Number: 75-65-0.
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
75-65-0	1,1-Dimethylethanol.	C ₄ H ₁₀ O.

Section 3- Hazards Identification.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids,

Category 2 H225

Acute toxicity (inhal.), Category 4 H332

Serious eye damage/eye irritation, Category 2 H319

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Signal word (CLP): -



Hazard statements (CLP) : H225 - Highly flammable liquid and vapour

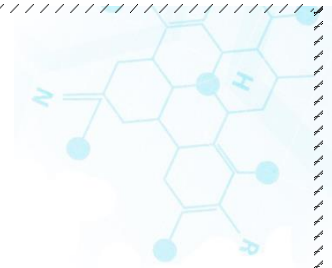
H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation



Plot No: 78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad - 500 055.
Telangana, India.



Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting/... equipment
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/... if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P378 - In case of fire: Use ... to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to ...

Section 4- First Aid Measures.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

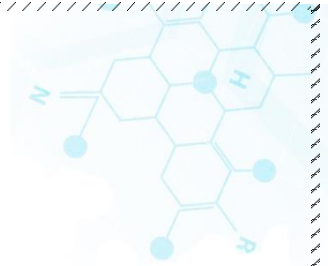
Section 5- Fire Fighting Measures.

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.





Special hazards arising from the substance or mixture

Carbon oxides, Sulfur oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

Section 6- Accidental Release Measures.

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

Emergency procedures : Evacuate unnecessary personnel.

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Section 7- Handling and Storage.

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash ... thoroughly after handling.

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Incompatible materials : Heat sources

Section 8- Exposure Control/Personal Protection.

Engineering Controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

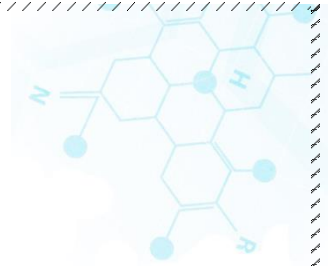
Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection





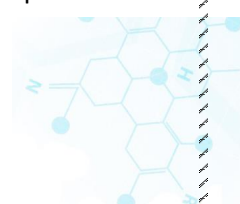
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



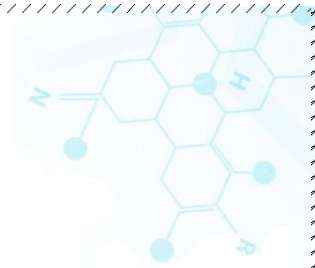
Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9- Physical and Chemical Properties.

Physical state :	Liquid
Colour :	Clear Colorless.
Odour :	camphor.
Odour threshold :	No data available
pH :	7
Relative evaporation rate (butylacetate=1) :	1.05
Melting point :	23 - 26
Freezing point :	No data available
Boiling point :	83 °C
Flash point :	11 °C
Auto-ignition temperature :	480 °C
Decomposition temperature :	No data available
Flammability (solid, gas) :	Flammable
Highly flammable liquid and vapour	
Vapour pressure :	41 hPa at 20 °C
Relative vapour density at 20 °C :	2.6
Relative density :	No data available
Density :	0.78 g/cm ³
Relative gas density :	2.56
Solubility : Water:	completely miscible
Log Pow :	No data available





Viscosity, kinematic :	No data available
Viscosity, dynamic :	3.35 mPa.s @ 300C
Explosive properties :	No data available
Oxidising properties :	No data available
Explosive limits :	0.024 - 0.08 vol %

Section 10- Stability and Reactivity.

Reactivity

No data available

Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Possibility of hazardous reactions

No data available

Conditions to avoid

Open flame. Direct sunlight. Overheating.

Incompatible materials

No additional information available

Hazardous decomposition products

May release flammable gases.

Section 11- Toxicological Information.

Information on toxicological effects.

Acute toxicity : Inhalation: Harmful if inhaled.

Skin corrosion/irritation : Not classified

pH: 7

Serious eye damage/irritation : Causes serious eye irritation.

pH: 7

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

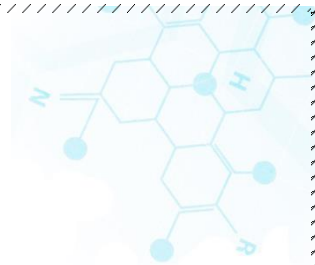
Specific target organ toxicity (single exposure)

: May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

: Not classified





Aspiration hazard : Not classified

Section 12- Ecological Information.

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects No additional information available

Section 13- Disposal Considerations.

Product/Packaging disposal recommendations : Dispose of contents/container to Additional information : Handle empty containers with care because residual vapours are flammable.

Section 14- Transport Information.

DOT

UN-No UN1120

Proper Shipping Name BUTANOLS

Hazard Class 3

Packing Group II

TDG

UN-No UN1120

Proper Shipping Name BUTANOLS

Hazard Class 3

Packing Group II

IATA

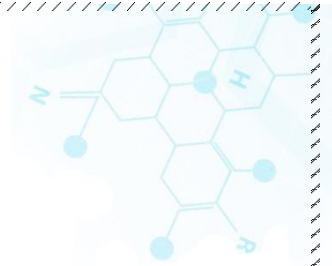
UN-No UN1120

Proper Shipping Name BUTANOLS

Hazard Class 3

Packing Group II





IMDG/IMO

UN-No UN1120

Proper Shipping Name BUTANOLS

Hazard Class 3

Packing Group II

Section 15- Regulatory Information.

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.

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals. Other International Regulations

Mexico - Grade No information available

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.

