



<u>1- Chemical Produc</u>	t Information and Company Identification.	
Product Name:	: 2-Nitroethanol reference standard, AnStan [®] .	
Synonym:	: 2-Nitro-1-ethanol.	
Product code:	: BS14896.	
CAS Number:	: 625-48-9.	
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. Formula
625-48-9.	2-Nitro-1-ethanol.	$C_2H_5NO_3$.

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Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling.

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.

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.

<u>Skin</u>

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Eyes

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.

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.

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: 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 spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.



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Flash Point: > 112 °C / > 233.6 °F. Method -No information available. Autoignition Temperature: No information available. **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact: No information available. Sensitivity to Static Discharge: No information available. **Specific Hazards Arising from the Chemical** Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. **Hazardous Combustion Products** Nitrogen oxides (NOx), 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	1	0	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.

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.
Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials, Strong oxidizing agents, Strong bases, Acid anhydrides, Acid chlorides.

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 that eyewash stations and safety showers are close to the work station location. Ensure adequate ventilation, especially in confined areas.



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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:**

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Handle in accordance with good industrial hygiene and safety practice

## Section 9- Physical and Chemical Properties.

| Appearance:                                                | Colorless to Red to Green clear liquid. |  |  |  |
|------------------------------------------------------------|-----------------------------------------|--|--|--|
| Odor:                                                      | No information available.               |  |  |  |
| Odor Threshold:                                            | No information available.               |  |  |  |
| pH:                                                        | No information available.               |  |  |  |
| Melting Point/Range:                                       | -80 °C.                                 |  |  |  |
| Boiling Point/Range:                                       | 197 °C.                                 |  |  |  |
| Flash Point:                                               | No information available.               |  |  |  |
| Evaporation Rate:                                          | No information available.               |  |  |  |
| Flammability (solid,gas): Not applicable.                  |                                         |  |  |  |
| Flammability or explosive limits                           |                                         |  |  |  |
| Upper                                                      | No information available.               |  |  |  |
| Lower                                                      | No information available.               |  |  |  |
| Vapor Pressure:                                            | No information available.               |  |  |  |
| Density:                                                   | 1.27 g/ml.                              |  |  |  |
| Solubility:                                                | Soluble in water.                       |  |  |  |
| Partition coefficient; n-octanol/water: No data available. |                                         |  |  |  |
| Autoignition Temperature: No data available.               |                                         |  |  |  |
| Decomposition Temperature: No data available.              |                                         |  |  |  |
| Viscosity:                                                 | No data available.                      |  |  |  |
| Molecular formula:                                         | $C_2H_5NO_3$ .                          |  |  |  |
| Molecular Weight:                                          | 91.07 g/mol.                            |  |  |  |
|                                                            |                                         |  |  |  |

## Section 10- Stability and Reactivity.

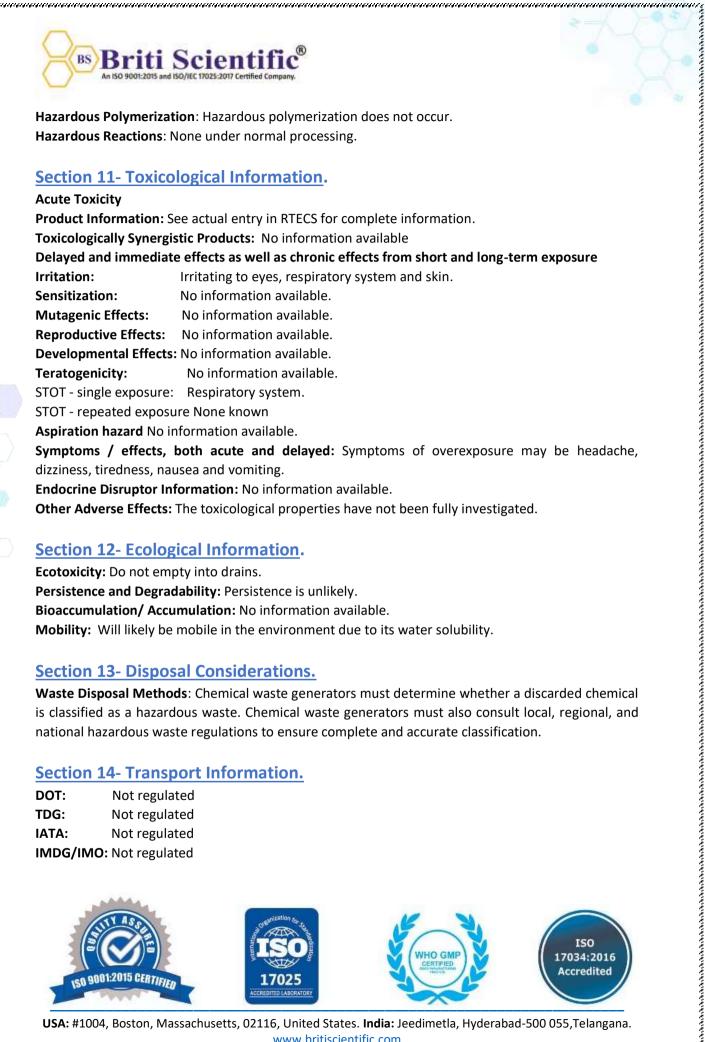
Reactive Hazard: None known, based on information available
Stability: Stable under normal conditions.
Conditions to Avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition
Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).



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Hazardous Polymerization: Hazardous polymerization does not occur. Hazardous Reactions: None under normal processing.

## Section 11- Toxicological Information.

### **Acute Toxicity**

Product Information: See actual entry in RTECS for complete information. Toxicologically Synergistic Products: No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation: Irritating to eyes, respiratory system and skin. Sensitization: No information available. No information available. **Mutagenic Effects:** Reproductive Effects: No information available. Developmental Effects: No information available. No information available. **Teratogenicity:** STOT - single exposure: 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: Do not empty into drains. Persistence and Degradability: Persistence is unlikely. 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:      | Not regulated |
|-----------|---------------|
| TDG:      | Not regulated |
| IATA:     | Not regulated |
| IMDG/IMO: | Not regulated |



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# 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.



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