

MATERIAL SAFETY DATA SHEET

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Issue Date:

1- Chemical Product Information and Company Identification.

Product Name: Isobutyronitrile GC reference standard, AnStan[®].
Synonym: Isopropyl Cyanide.
Product code: BS13688.
CAS Number: 78-82-0.
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
78-82-0.	Isopropyl Cyanide.	C ₄ H ₇ N.

Section 3- Hazards Identification.

Label elements

Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapor

Toxic in contact with skin

May cause damage to organs



Precautionary Statements

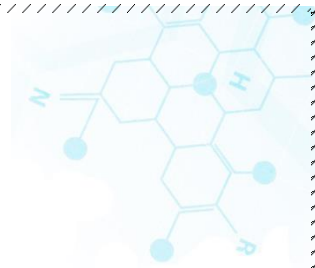
Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product



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Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

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

Keep cool

Response

If exposed or you feel unwell: Call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

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: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Fire

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

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

Section 4- First Aid Measures.

Description of first aid measures:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

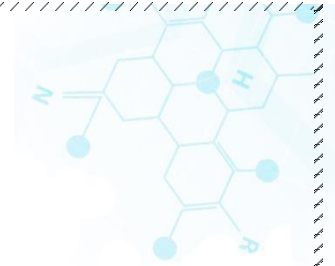
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.



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In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Indication of any immediate medical attention and special treatment needed no data available

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 no data available

Advice for fire-fighters Wear self-contained breathing apparatus for fire fighting if necessary.

Further information no data available

Section 6- Accidental Release Measures.

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions See Section 12 for additional Ecological Information.

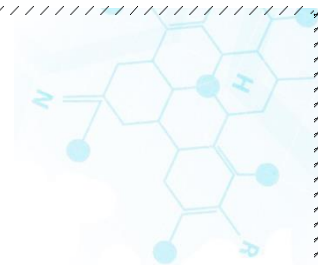
Methods for Containment and Clean Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7- Handling and Storage.

Handling Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage Flammables area. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents. Oxidizing agent.





Section 8- Exposure Control/Personal Protection.

Exposure 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 Face shield and safety glasses 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.

Splash contact

Body Protection

Complete suit protecting against chemicals, 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 full-face respirator with multipurpose combination (US) or type AXBEK (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).

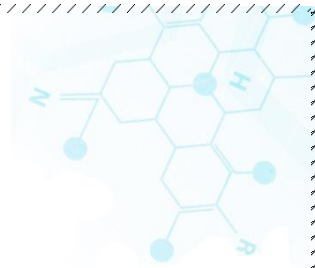
Control of environmental exposure

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
Appearance	Light yellow
Odor	bitter almonds
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-72 °C / -97.6 °F
Boiling Point/Range	108 °C.
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available





Vapor Pressure	100 mmHg @ 54.4 °C
Specific Gravity	0.760
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	482 °C / 899.6 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C ₄ H ₇ N
Molecular Weight	69.11 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, Strong acids, Strong bases, Strong reducing agents, Oxidizing agent

Hazardous Decomposition Products Nitrogen oxides (NO_x), Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing

Section 11- Toxicological Information.

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

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Mutagenic Effects No information available

Reproductive Effects No information available. Developmental Effects No information available.

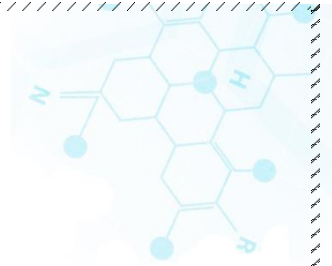
Teratogenicity No information available. STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,





Section 12- Ecological Information.

Ecotoxicity

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

UN-No UN2284

Hazard Class 3

Subsidiary Hazard Class 6.1

Packing Group II

TDG

UN-No UN2284

Hazard Class 3

Subsidiary Hazard Class 6.1

Packing Group II

IATA

UN-No UN2284

Proper Shipping Name ISOBUTYRONITRILE

Hazard Class 3

Subsidiary Hazard Class 6.1

Packing Group II

IMDG/IMO

UN-No UN2284

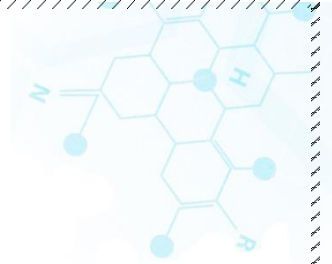
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15-Other Regulatory Information.

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

TSCA 12(b) - Notices of Export Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant Y

DOT Severe Marine Pollutant N

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.

