

MATERIAL SAFETY DATA SHEET

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Issue Date:

1- Chemical Product Information and Company Identification.

Product Name: Nitrobenzene GC Reference Standard, Anstan[®].
Synonym: Nitrobenzene.
Product code: BS11555.
CAS Number: 98-95-3.
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
98-95-3.	Nitrobenzene.	C ₆ H ₅ NO ₂ .

Section 3- Hazards Identification.

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

Acute toxicity (dermal), Category 3 H311
Acute toxicity (inhal.), Category 3 H331
Acute toxicity (oral), Category 3 H301
Specific target organ toxicity — Repeated exposure, Category 1 H372
Carcinogenicity, Category 2 H351

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

Hazard pictograms (CLP)



Signal word (CLP) :-

Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H351 - Suspected of causing cancer

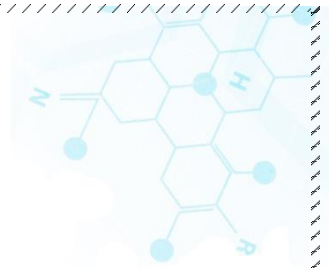
H361f - Suspected of damaging fertility

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects



Plot No: 78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad - 500 055.
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Precautionary statements (CLP) : P201 - Obtain special instructions before use
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P311 - Call a POISON CENTER or doctor/physician

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.

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place

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.

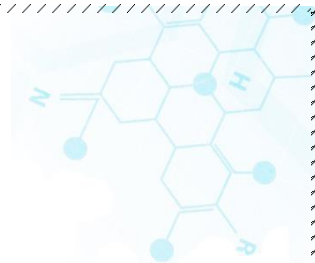
Respiratory protection

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.

Appearance:	Light yellow to clear liquid.
Odour :	almond odour.
Odour threshold :	No data available
pH :	8 - 8.5 at 1,00000 g/l at 20°C
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	6 °C.
Freezing point :	No data available
Boiling point :	210 °C.
Flash point :	88 °C
Auto-ignition temperature :	482 °C
Decomposition temperature :	No data available
Flammability (solid, gas) :	No data available
Vapour pressure :	0.3 hPa at 20°C
Relative vapour density at 20 °C :	4.3
Relative density :	No data available
Density :	1.04 g/cm ³ .
Solubility : Water:	Practically insoluble in water
Log Pow : 1.85	
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available
Explosive properties :	No data available
Oxidising properties :	No data available
Explosive limits :	0.018 - 0.4 vol %

Section 10- Stability and Reactivity.

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Direct sunlight. Open flame. Overheating. Heat. Sparks.

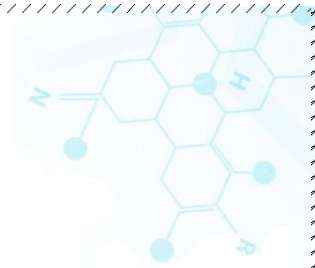
Incompatible materials

No additional information available

Hazardous decomposition products

May release flammable gases.





Section 11- Toxicological Information.

Acute toxicity : Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed

Skin corrosion/irritation : Not classified pH: 8 - 8.5 at 1,00000 g/l at 20°C

Serious eye damage/irritation : Not classified

pH: 8 - 8.5 at 1,00000 g/l at 20°C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Suspected of damaging fertility.

Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated exposure)

: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms

: Toxic if swallowed. Toxic in contact with skin.

Section 12- Ecological Information.

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

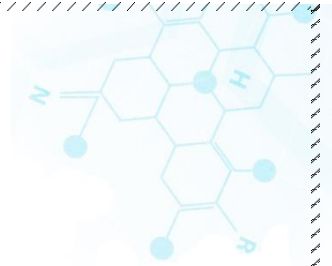
12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects No additional information available





Section 13- Disposal Considerations.

Waste treatment methods Product/Packaging

disposal recommendations : Dispose of contents/container to ...

Ecology - waste materials : Hazardous waste due to toxicity.

Section 14- Transport Information.

UN-No. (ADR) : 1662

UN-No. (IMDG) : 1662

UN-No.(IATA) : 1662

UN-No.(ADN) : 1662

UN-No. (RID) : 1662

Proper Shipping Name (ADR) : NITROBENZENE

Proper Shipping Name (IMDG) : NITROBENZENE

Proper Shipping Name (IATA) : NITROBENZENE

Proper Shipping Name (ADN) : NITROBENZENE

Proper Shipping Name (RID) : NITROBENZENE

Transport document description (ADR) : UN 1662 NITROBENZENE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1662 NITROBENZENE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1662 NITROBENZENE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1662 NITROBENZENE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 1662 NITROBENZENE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Section 15- Regulatory Information.

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management

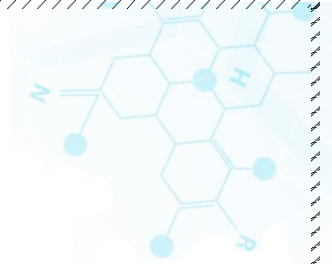
guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product



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Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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.

