

## MATERIAL SAFETY DATA SHEET

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Issue Date:

### 1- Chemical Product Information and Company Identification.

**Product Name:** Diisopropylamine GC Reference standard, AnStan<sup>®</sup>.  
**Synonym:** Isodipropylamine.  
**Product code:** BS14282.  
**CAS Number:** 108-18-9.  
**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
108-18-9.	Isodipropylamine.	C <sub>6</sub> H <sub>15</sub> N.

### Section 3- Hazards Identification.

#### Label Elements

#### Signal Word

Danger

#### Hazard Statements

Highly flammable liquid and vapor

Harmful if swallowed

Causes severe skin burns and eye damage May cause respiratory irritation Toxic if inhaled.



#### Precautionary Statements

#### Prevention

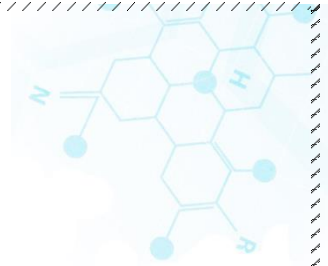
Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area



Plot No: 78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad - 500 055.  
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Do not breathe dust/fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face 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  
Immediately 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  
Skin  
**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
Eyes  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Ingestion  
Rinse mouth  
Do NOT induce vomiting  
Fire  
**In case of fire:** Use CO<sub>2</sub>, 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.

##### **Description of first aid measures**

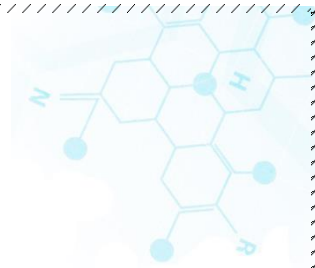
##### **General advice**

Show this material safety data sheet to the doctor in attendance.

##### **If inhaled**

After inhalation: fresh air. Call in physician.





#### **In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### **In case of eye contact**

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### **If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### **Section 5- Fire Fighting Measures.**

#### **Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Foam Dry powder.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

##### **Special hazards arising from the substance or mixture**

Carbon oxides

Combustible.

Pay attention to flashback.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

##### **Advice for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

##### **Further information**

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **Section 6- Accidental Release Measures.**

#### **Personal precautions, protective equipment and emergency procedures**

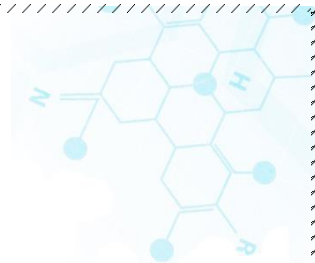
Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact.

Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains. Risk of explosion.





## Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g., Chemisorb®). Dispose of properly. Clean up affected area.

## Section 7- Handling and Storage.

**Handling:** Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. 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:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Corrosives area.

## Section 8- Exposure Control/Personal Protection.

### Exposure controls

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

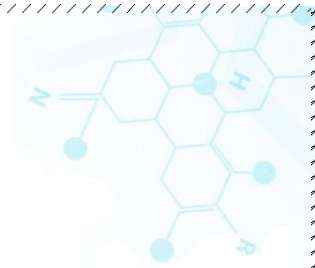
Break through time: 480 min

Material tested: Butoject® (KCL 898)

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Splash contact





Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 10 min

Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M)

#### **Body Protection**

Flame retardant antistatic protective clothing.

#### **Respiratory protection**

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type AX.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

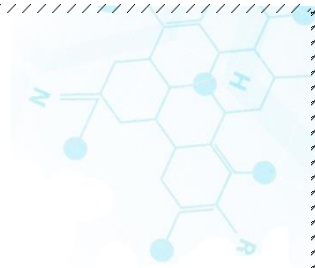
### **Section 9- Physical and Chemical Properties.**

#### **Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	Ammonia-like
<b>Odor Threshold</b>	No information available
<b>pH</b>	Alkaline
<b>Melting Point/Range</b>	-61 °C
<b>Evaporation Rate</b>	5.8 (Butyl Acetate = 1.0)
<b>Flammability (solid,gas)</b>	Not applicable
<b>Flammability or explosive limits</b>	
<b>Upper</b>	7.1%
<b>Lower</b>	0.8%
<b>Vapor Pressure</b>	60 mmHg @ 20 °C
<b>Vapor Density</b>	3.5
<b>Specific Gravity</b>	0.7200
<b>Solubility</b>	Soluble in water
<b>Partition coefficient; n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	316 °C
<b>Decomposition Temperature</b>	No information available







<b>Viscosity</b>	No information available
<b>Molecular Formula</b>	$C_6H_{15}N$
<b>Molecular Weight</b>	101.19 g/mol

### Section 10- Stability and Reactivity.

**Reactive Hazard** None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** Acids, Oxidizing agent

**Hazardous Decomposition Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

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

### Section 11- Toxicological Information.

**Information on toxicological effects**

**Acute toxicity** : Harmful if swallowed. Harmful if inhaled.

**Skin corrosion/irritation** : Causes severe skin burns and eye damage.

**Serious eye damage/irritation** : Serious eye damage, category 1, implicit

**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive toxicity** : Not classified

**STOT-single exposure** : Not classified

**Additional information** : Corrosive to the respiratory tract.

**STOT-repeated exposure** : Not classified

**Aspiration hazard** : Not classified

Potential adverse human health effects and symptoms

: Harmful if swallowed.

### Section 12- Ecological Information.

#### **12.1. Toxicity**

No additional information available

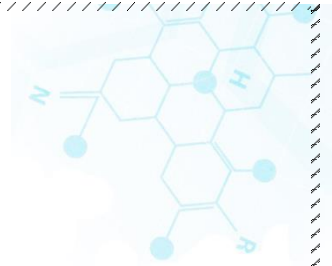
#### **12.2. Persistence and degradability**

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.

#### **Waste treatment 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 UN1158

Proper Shipping Name DIISOPROPYLAMINE

Hazard Class 3

Subsidiary Hazard Class 8

Packing Group II

TDG

UN-No UN1158

Proper Shipping Name DIISOPROPYLAMINE

Hazard Class 3

Subsidiary Hazard Class 8

Packing Group II

IATA

UN-No UN1158

Proper Shipping Name DIISOPROPYLAMINE

Hazard Class 3

Subsidiary Hazard Class 8

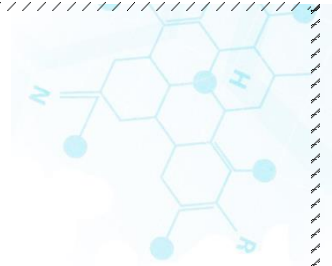
Packing Group II

IMDG/IMO

UN-No UN1158

Proper Shipping Name DIISOPROPYLAMINE





Hazard Class 3  
Subsidiary Hazard Class 8  
Packing Group II

### 15-Other Regulatory Information.

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.

