

# UnaveraChemLab GmbH

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
Version 1.3 Revision Date 02.02.2014

### 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

#### Product identifiers

**Product name:** *N,N'*-Diisopropylcarbodiimide

**CAS-No. :** 693-13-0

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses :** Laboratory chemicals, Manufacture of substances

#### Details of the supplier of the safety data sheet

**Company :** UnaveraChemLab GmbH  
Am Fischweiher 20  
82481 Mittenwald  
Germany  
**Emergency Phone No. :** +49-8823-1351

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 1), H330

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

T+ Very toxic R10, R26, R36/37/38, R41, R42/43

For the full text of the R-phrases mentioned in this Section, see Section 16.

#### Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

#### Hazard statement(s)

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ eye protection/ face protection.

P284 Wear respiratory protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard Statements

none

**Other hazards**

none

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Synonyms: DIC  
Formula: C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>  
Molecular Weight: 126,2 g/mol

CAS No.	EC No.	Index No.	Classification	Concentration
<b><i>N,N'</i>-Methanetetraylbis(1-methylethylamine)</b>				
693-13-0	211-743-7	---	Flam. Liq. 3; Acute Tox. 1; Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H226, H315, H317, H318, H330, H334, H335  T+, R10 - R26 - R37/38 - R41 - 42/43	<=100%

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**4. FIRST AID MEASURES**

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**Description of first aid measures**

***General advice***

Consult a physician. Show this safety data sheet to the doctor in attendance.

***If inhaled***

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

***In case of skin contact***

Wash off with soap and plenty of water. Take victim immediately to hospital. 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***

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

no data available

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## 5. FIRE-FIGHTING MEASURES

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### Extinguishing media

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

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)  
Flash back possible over considerable distance.

### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Further information

Use water spray to cool unopened containers.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
For personal protection see section 8.

### Environmental precautions

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

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.  
For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Store in cool place.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store under inert gas. Moisture sensitive.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control parameters

Components with workplace control parameters

### Exposure controls

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **Personal protective equipment**

##### **Eyeface protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective 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 full-face 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

**Form** liquid  
**Colour** light brown

### Safety data

**pH** no data available  
**Melting point** no data available  
**Boiling point** 145 - 148 °C  
**Flash point** 31 °C - closed cup  
**Ignition temp.** no data available  
**Lower explosion limit** no data available  
**Upper explosion limit** no data available  
**Density** 0,815 g/mL at 20 °C  
**Water solubility** no data available

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## 10. STABILITY AND REACTIVITY

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### **Reactivity**

no data available

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**Chemical stability**

Exposure to moisture.  
Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents, acids

**Hazardous decomposition products**

Other decomposition products - no data available  
In the event of fire: see section 5

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**11. TOXICOLOGICAL INFORMATION**

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**Information on toxicological effects*****Acute toxicity***

LC50 Inhalation - rat - 4 h - 0,105 mg/l

***Skin corrosion/irritation***

no data available

***Serious eye damage/eye irritation***

no data available

***Respiratory or skin sensitization***

May cause allergic respiratory and skin reactions

***Germ cell mutagenicity***

Genotoxicity in vitro - Ames test - negative

***Carcinogenicity***

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

***Reproductive toxicity***

no data available

***Specific target organ toxicity - single exposure***

Inhalation - May cause respiratory irritation.

***Specific target organ toxicity - repeated exposure***

no data available

***Aspiration hazard***

no data available

**Potential health effects**

***Inhalation*** May be fatal if inhaled. Causes respiratory tract irritation.

***Ingestion*** May be harmful if swallowed.

***Skin*** May be harmful if absorbed through skin. Causes skin irritation.

***Eyes*** Causes eye burns.

**Signs and Symptoms of Exposure**

Damage to the eyes., Nausea, Headache, Vomiting, Causes severe corneal edema. Temporary blindness has been reported. Symptoms may be delayed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: FF2175000

Damage to the eyes., Nausea, Headache, Vomiting, Causes severe corneal edema. Temporary blindness has been reported., Symptoms may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

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### **Toxicity**

no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

no data available

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## 13. DISPOSAL CONSIDERATIONS

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### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### **Contaminated packaging**

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

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### **ADR/RID**

UN-Number: 2929 Class: 6.1 (3) Packing group: II

Proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (N,N'-Methanetetraylbis(1-methylethylamine))

### **IMDG**

UN-Number: 2929 Class: 6.1 (3) Packing group: II EMS-No: F-E, S-D

Proper shipping name: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (N,N'-Methanetetraylbis(1-methylethylamine))

Marine pollutant: No

### **IATA**

UN-Number: 2929 Class: 6.1 (3) Packing group: II

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (N,N'-Methanetetraylbis(1-methylethylamine))

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## 15. REGULATORY INFORMATION

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

### **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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## 16. OTHER INFORMATION

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### **Full text of H-Statements referred to under sections 2 and 3.**

Acute Tox. Acute toxicity  
Eye Dam. Serious eye damage  
Flam. Liq. Flammable liquids  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
Resp. Sens. Respiratory sensitisation  
Skin Irrit. Skin irritation  
Skin Sens. Skin sensitization

### **Full text of R-phrases referred to under sections 2 and 3**

T+ Very toxic  
R10 Flammable.  
R26 Very toxic by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R42/43 May cause sensitisation by inhalation and skin contact

**The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.**

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