

# Syntor Fine Chemicals Ltd

## Material Safety Data Sheet

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

<b>1.1 Product identifier:</b>	2-Diisopropylaminoethyl chloride hydrochloride (solid)	
<b>Synonyms:</b>	[N-(2-Chloroethyl)diisopropylamine hydrochloride]	
<b>Recommended uses:</b>	Intermediate in chemical manufacture	
<b>Uses advised against:</b>	No information available	
<b>1.3 Detail of supplier:</b>	Syntor Fine Chemicals Ltd 11 Boleyn Court Manor Park Runcorn WA7 1SR	<b>1.4 Emergency Telephone:</b> +44 (0) 7720 149 777 Fax: +44 (0) 1928 579 734 e-mail: <a href="mailto:mr@syntor.co.uk">mr@syntor.co.uk</a> <a href="http://www.syntor.co.uk">www.syntor.co.uk</a>

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance:

**Classification of substance according to CLP, 1272/2008/EC:**

H301 Toxic if swallowed  
H310 Fatal in contact with skin  
H330 Fatal if inhaled  
H318 Causes serious eye damage  
H315 Causes skin irritation  
H335 May cause respiratory irritation  
H341 Suspected of causing genetic defects

#### 2.2 Label element:



#### Signal word:

**Danger**

#### Hazard / Precautionary Statements:

H301 Toxic if swallowed  
H310 Fatal in contact with skin  
H330 Fatal if inhaled  
H318 Causes serious eye damage  
H315 Causes skin irritation  
H335 May cause respiratory irritation  
H341 Suspected of causing genetic defects

P 260 Do not breathing dust/fume/gas/mist/vapours/spray.  
P 301 + 310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P 305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P320 Specific treatment urgent (see on this label)  
P405 Store locked up  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

#### 2.3 Other Hazards:

**Results of PBT and vPvB assessment**

**PBT:** Not applicable  
**vPvB:** Not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Ingredient	CAS Number	EC Number	Concentration (% w/w)	Classification according to (EC) No 1272/2008 (CLP)
2-Diisopropylaminoethyl chloride hydrochloride	4261-68-1	224-238-1	~ 100 %	Acute tox. 3: H301 Toxic if swallowed Acute tox. 2: H310 Fatal in contact with skin Acute tox. 1: H330 Fatal if inhaled Eye Dam. 1: H318 Causes serious eye damage Skin Irrit. 2: H315 Causes skin irritation STOT SE 3: H335 May cause respiratory irritation Muta Cat 2: H341 Suspected of causing genetic defects

**Molecular formula:** C<sub>8</sub>H<sub>18</sub>ClN.HCl  
**Molecular weight:** 200.15

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures:

**General information:** Instantly remove any clothing soiled by the product.  
Remove breathing apparatus only after soiled clothing has been completely removed.

**Inhalation:** Supply fresh air. If required, provide artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep patient warm. Consult doctor if symptoms persist.

**Skin contact:** Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

**Eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

**Swallowing:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of immediate medical attention and special treatment needed:** No further relevant information available.

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## 5. FIRE-FIGHTING MEASURES

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**5.1 Extinguishing Media:**  
**Suitable extinguishing agents:** Use carbon dioxide, sand or extinguishing powder or water jet. For larger fire use water jet or alcohol resistant foam.

**For safety reasons unsuitable extinguishing media:** None

**5.2 Special hazards caused by the material, its products of combustion or flue gases:**

Can be released in case of fire. Carbon monoxide and carbon dioxide. Nitrogen Oxides (NOx), Hydrogen Chloride (HCl)

**5.3 Precautions for fire fighters:** Wear self-contained breathing apparatus. Wear full protective suit.

**5.4 Further information:** Use water spray to cool un opened containers

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## 6. ACCIDENTAL RELEASE MEASURES

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**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**6.2 Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Do not allow material to be released to the environment without proper governmental permits

**6.3 Methods and materials for containment and cleaning up:** Avoid dust formation. Contain spillage, vacuum / sweep and place in suitable container for disposal according to local / national regulations (see section 13). Dispose of contaminated material according to local / national regulations.

**6.4 Reference to other sections:** See section 13.

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## 7. HANDLING AND STORAGE

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**7.1 Precautions for safe handling:** Avoid exposure - obtain special instructions before use. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep ignition sources away – Do not smoke. Store in cool location. Store away from oxidizing agents. Keep container tightly sealed. Protect from humidity, and keep away from water.

**7.3 Specific use(s):** No further relevant information available.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**8.1 Control parameters:**  
**Derived No Effect Level(DNEL):** No information available

**Predicted No Effect Concentration (PNEL):** No information available

**8.2 Exposure controls:**  
**Additional information about design of technical systems:** Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Personal protective equipment:**  
**General protective and hygienic measures:** The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

**Breathing equipment:** Use breathing protection with high concentrations.

<b>Protection of hands:</b>	Protective gloves
<b>Eye protection:</b>	Tightly sealed safety glasses / full face protection
<b>Body protection:</b>	Protective work clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

a) Appearance Form:	Colourless to light-yellow solid
b) Odour:	Not determined
c) Odour Threshold:	No information available
d) pH	No information available
e) Melting point/range:	131 – 134°C
f) Boiling range:	No information available
g) Flash point:	Not applicable aqueous solution
h) Flammability:	No information available
j) Upper/lower flammability or explosive limits:	No information available
k) Vapour pressure:	No information available
l) Vapour density:	No information available
m) Relative density:	No information available
n) Water solubility:	Soluble
o) Partition coefficient:	No information available
p) Autoignition temperature:	No information available
q) Decomposition temperature:	No information available
r) Viscosity:	No information available
s) Explosive properties:	No information available
t) Oxidizing properties:	No information available

9.2 Other information No relevant information available

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## 10. STABILITY AND REACTIVITY

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10.1 Reactivity:	No decomposition if used and stored according to specifications.
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known
10.4 Conditions to avoid:	Incompatible materials
10.5 Incompatible materials:	Oxidizing agent
10.6 Hazardous decomposition products:	Carbon dioxide, carbon monoxide, Nitrogen Oxides (NO <sub>x</sub> ), Hydrogen Chloride (HCl)

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

<b>Acute toxicity:</b>	Oral LD50 – 96 mg/kg (rat) Dermal LD50 – 197 mg/kg (rab) Inhalation LC50/4H - 12 mg/m <sup>3</sup> /4H(rat)
<b>Primary irritant effect:</b>	
<b>Effect on the skin:</b>	Irritant effect on skin and mucous membranes.
<b>Effect on the eye:</b>	Strong caustic effect. Causes serious eye damage
<b>If swallowed:</b>	Toxic if swallowed. Swallowing will lead to a strong caustic effect on throat and to the danger of perforation of oesophagus and stomach
<b>Sensitisation:</b>	No sensitising effect known.
<b>Additional toxicological information</b>	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data or carcinogenic properties of this material is available

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## 12. ECOLOGICAL INFORMATION

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12.1 Toxicity	
Aquatic toxicity:	No further relevant information available
12.2 Persistence and degradability:	No further relevant information available
12.3 Bioaccumulative potential:	No further relevant information available
12.4 Mobility in soil:	No further relevant information available
12.5 Results of PBT and vPvB assessment:	No further relevant information available
12.6 Other adverse effects	No further relevant information available
Additional ecological information:	

**General notes:** Water hazard class 1. Slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

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### 13. DISPOSAL CONSIDERATIONS

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#### 13.1 Waste treatment method

**Substance disposal:** Handover to disposers of hazardous waste.  
Must be specially treated under adherence to official regulations.  
Consult state, local or national regulations for proper disposal.  
Arrange disposal as special waste, by licensed disposal company.

**Waste packaging:** Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

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#### Land transport ADR/RID e GGVS/GGVE (cross-border/domestic)



**ADR/RID-GGVS/E Class:** 6.1 Toxic Substance  
**UN No:** 2811  
**Packaging group:** I  
**Label:** 6  
**Designation of goods:** 2810 TOXIC SOLID, ORGANIC, N.O.S. (2-Diisopropylaminoethyl chloride hydrochloride)

#### Maritime transport IMDG/GGVSea:



**IMDG/GGVSea Class:** 6.1  
**UN No:** 2811  
**Label:** 6  
**Packaging group:** I  
**Correct technical name:** TOXIC SOLID, ORGANIC, N.O.S. (2-Diisopropylaminoethyl chloride hydrochloride)

#### Air transport ICAO-TI and IATA-DGR:



**ICAO/IATA Class:** 6.1  
**UN/ID No:** 2811  
**Label:** 6  
**Packaging group:** I  
**Designation of goods:** TOXIC SOLID, ORGANIC, N.O.S. (2-Diisopropylaminoethyl chloride hydrochloride)

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### 15. REGULATORY INFORMATION

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

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

No data available

**15.2 Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out for this substance.

**Additional information:** This product is subject to the International Chemical Weapons Convention.  
In the United Kingdom the product is subject to the Chemical Weapons act 1996.  
For use only by technically qualified individuals

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### 16. OTHER INFORMATION

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**Revision Summary:** The issue replaces revision 005. The safety data sheet has been updated to align the hazard and precautionary phrases with those assigned during REACH registration.  
The substance has also been identified as a possible mutagen.

The above Information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Syntor Fine Chemicals Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product.

Disclaimer: For R&D use only. Not for drug, household or other uses.

We welcome any additional information about our products that customers have obtained by personal experience.

