2-DIMETHYLAMINOETHYL CHLORIDE HYDROCHLORIDE EXTRA PURE MSDS





MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
T.T. Product identifier	
Product form	: Substance
	:
EC no	: 224-970-1
CAS No	: 4584-46-7
Product code	: 3390F
Formula	: C4H10CIN.HCI
Synonyms	 2-Chloro-N,N-dimethylethylamine hydrochloride / 1-Chloro-2-dimethylaminoethane hydrochloride / N-(2-Chloroethyl)dimethylaminehydrochloride

1.2.	Relevant identified uses of the substance or mixture and uses advised aga	ainst

1.2.1. Re	elevant	identified	uses
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: Industrial;For professional use only

1.2.2. Uses advised against

Use of the substance/mixture

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral),H302Category 4Germ cell mutagenicity,H341Category 2Specific target organH373toxicity — Repeatedexposure, Category 2Hazardous to the aquaticHazardous to the aquaticH411environment — ChronicHazard, Category 2

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements	
Labelling according to Regulation (E	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08 GHS09
Signal word (CLP)	: Warning
Hazard statements (CLP)	 H302 - Harmful if swallowed H341 - Suspected of causing genetic defects (if inhaled, if swallowed, in contact with skin, Inhalation, oral) H373 - May cause damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P260 - Do not breathe dust P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell P330 - Rinse mouth

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
2-Dimethylaminoethyl chloride hydrochloride	(CAS No) 4584-46-7	100
Extra Pure	(EC no) 224-970-1	

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. If you feel unwell, seek medical advice.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries	: May cause damage to organs. Suspected of causing genetic defects.
Symptoms/injuries after ingestion	: Harmful if swallowed.
	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: Foam. Carbon dioxide (CO2).
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Wear fire/flame resistant/retardant clothing.
SECTION 6: Accidental release measure	s
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Toxic to aquatic life with long lasting effects	
6.3. Methods and material for contai	nment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating,
Trygiene medoures	drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	drinking or smoking and when leaving work.
	drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclusions	drinking or smoking and when leaving work.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear fire/flame resistant/retardant clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical an	
Physical state	: Solid
Appearance Molecular mass	: Crystals. : 144.04 g/mol
Colour	: White to beige.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 203 - 210 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions of use.	
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	ducts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	: Oral: Harmful if swallowed.
Acute toxicity	
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects (if inhaled, if swallowed, in contact with skin, Inhalation, oral).
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Appiration bazard	· Not clossified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
12.1. IOXICITY 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 asses	ssment	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
No additional information available		
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IA	TA / ADN	
14.1. UN number		
UN-No. (ADR)	: 3077	
UN-No. (IMDG)	: 3077	
UN-No.(IATA)	: 3077	
UN-No.(ADN)	: Not regulated	
UN-No. (RID)	: Not regulated	
- 、 /		
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Proper Shipping Name (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Proper Shipping Name (ADN)	: Not regulated	
Proper Shipping Name (RID)	: Not regulated	
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,	
Tropponent doorgont doorginting (DADO)		
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	
Transport document description (IATA)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III	
14.3. Transport hazard class(es)		
ADR		

,	
Transport hazard class(es) (ADR) Danger labels (ADR)	: 9 : 9
IMDG	
Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 9
Hazard labels (IATA)	: 9
ADN Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: !!!
Packing group (IATA)	
Packing group (ADN) Packing group (RID)	: Not regulated : Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: Yes : Yes
Marine pollutant Other information	: Yes : No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: M7
Special provision (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
	B000 10000 1000 B001

- : E1
- : P002, IBC08, LP02, R001 Special packing provisions (ADR) : PP12, B3

Packing instructions (ADR)

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: MP10
:T1, BK1, BK2
: TP33
: SGAV, LGBV
: AT
: 3
: V13
: VC1, VC2
: CV13
: 90
90 3077
5077
: E
: 2Z
: 274, 335, 966, 967, 969
: 5 kg
: E1
: P002, LP02
: PP12
: IBC08
: BC00
: T1, BK1, BK2, BK3
: TP33
: F-A
: S-F
: A
: SW23
: E1
: Y956
: 30kgG
: 956
: 400kg
: 956
: 400kg
: A97, A158, A179, A197
: 9L

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information	
15.1. Safety, health and environmental	regulations/legislation specific for the substance or mixture
	regulationsnegislation specific for the substance of mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions	
	e Extra Pure is not on the REACH Candidate List
2-Dimethylaminoethyl chloride hydrochloride	e Extra Pure is not on the REACH Annex XIV List
15.1.2. National regulations	
Germany	
	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Immission Control Act - 12.BImSchV	
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	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

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product