

1. Product and Company Identification

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Product Name : Dimethylamine Hydrochloride DMA HCL
Part Number :RXSOL-19-3874-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Sikka, Dahej, Hazira, JNPT, Goa, Mangalore, Cochin, Tuticorin, Chennai, Kakinada, Vizag, Paradip, Kolkata, UAE, Singapore.

Phone +91 22 27815540 / 41 / 42
Fax +91 22 2781 1318 ::::AOH :0091 9821214367
Email 123@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

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Name of Substance	Cas Number
Ammonium Bisulphite	506-59-2
Ethanediol	107-21-1
Quaternary Ammonium Chloride	68391-01-5
Propan-2-ol	67-63-0

3. Hazards Identification

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Classification according to Regulation (EC) N 1272/2008	Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319
	For the full text of the H-Statements mentioned in this Section, see Section 16.
Labelling according Regulation (EC) No 1272/2008	Pictogram Signal Word Warning
H302	Harmful if swallowed.
H315	Causes skin irritation
H319	Causes serious eye irritation.
P264	Wash skin thoroughly after handling
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
Supplemental Hazard	None
Statements	
Signal Word	Warning

6. Accidental Release Measures		www.rxmarine.com
Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dust.	
	Ensure adequate ventilation. Evacuate the danger zone if necessary. Consult a safety expert.	
	For personal protection see section 8.	

Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe disposal instructions (see sections 7 and 10). Take up dry. Dispose of properly.
Reference to other sections	generation of dusts For disposal see section 13.

7. Handling and Storage

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Precautions for safe handling	For precautions see section 2.2.
Storage conditions	Tightly closed. Dry. hygroscopic
Storage class	Storage class (TRGS 510): 11: Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other uses.

8. Exposure controls and personal protection

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Control parameters	Ingredients with workplace control parameters
Personal Protection	<p>Eye protection : Use equipment for eye protection according to applicable government standards such as NIOSH (US) or EN 1836 (EU).</p> <p>Body Protection :protective clothing Wear the following type. Gloves should be discarded and replaced if breakthrough. Skin protection :This recommendation is based on the data sheet, supplied by us and for the designated use. When discharging substances and under conditions deviating from those specified, please contact the supplier of CE-approved gloves (e.g. KCL Internet: www.kcl.de).</p> <p>Full contact</p> <p>Material: Nitrile rubber</p> <p>Minimum layer thickness: 0,11 mm</p> <p>Break through time: 480 min</p> <p>Material tested:KCL 741 Dermatril® L</p> <p>This recommendation applies only to the product supplied by us and for the designated use. When discharging substances and under conditions deviating from those specified, please contact the supplier of CE-approved gloves (e.g. KCL Internet: www.kcl.de).</p> <p>Splash contact</p> <p>Material: Nitrile rubber</p>

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L **Respirator**

Our recommendations on filtering respiratory protection standards: DIN EN 143, DIN 14387 and other according to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and protective devices are carried out according to the instructions.

These measures have to be properly documented.
Do not let product enter drains.

Control of environmental exposure



Gloves Suit

9. Physical and chemical properties

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Physical state	crystalline
Colour	colorless
Odour	odorless
Melting point/freezing point	Melting point/range: 170 - 173 °C - lit.
Initial boiling point	No data available
and boiling range	
Flammability (solid, gas)	No data available
Upper/lower	No data available
flammability or	
explosive limits	
Flash point	Not applicable
Autoignition	No data available
temperature	
Decomposition	> 170 °C
temperature	
pH	5 at 100 g/l at 20 °C
Viscosity	Viscosity, kinematic: No data available

Water solubility	Viscosity, dynamic: No data available 3.000 g/l at 20 °C
Partition coefficient:	log Pow: -3,28 - Bioaccumulation is not expected.
n-octanol/water	
Vapor pressure	No data available
Density Relative density	No data available
Relative vapor	No data available
density	
Particle	No data available
characteristics	
Explosive properties	No data available
Oxidizing properties	none
Other safety information	No data available

10. Stability and reactivity

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Recativity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! Violent reactions possible with:
Incompatible materials	Strong oxidizing agents No data available
Hazardous decomposition products	In the event of fire: see section 5
Condition to Avoid	hygroscopic no information available

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male and female - 1.000 mg/kg Remarks: (ECHA)The value is given in analogy to the following substances: dimethylamine Acute toxicity estimate Ora (ATE value derived from LD50/LC50 value)Inhalation: Irritating to respiratory system.Dermal: No data available
Skin corrosion/irritation	Skin - RabbitResult: Irritating to skin. - 4 h Remarks: (ECHA) The value is given in analogy to the following substances: dimethylamine
Serious eye damage/eye irritation	Eyes - Rabbit Result: Causes serious eye irritation (Draize Test) Remarks: The value is given in analogy to the following substances: dimethylamin .

Respiratory or skin sensitization	No data available
Germ cell mutagenicity	<p>Test Type: Mutagenicity (mammal cell test): chromosome aberration.Aldrich- 126365 Page 8 of 12</p> <p>The life science business of Merck operates as MilliporeSigma in the US and CanadaTest system: Chinese hamster ovar</p> <p>Metabolic activation: without metabolic activation Result: negative</p> <p>Remarks: (ECHA)Test Type: Chromosome aberration test</p> <p>Species: Rat Cell type: Bone marrow Application Route: Inhalation Result: negative</p> <p>Remarks: The value is given in analogy to the following substances: trimethylamine</p>
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity single exposure	No data available
Specific target organ toxicit repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties Product:	<p>Assessment : The substance/mixture does not contain</p> <p>components considered to have endocrine</p> <p>disrupting properties according to REACH Article</p> <p>57(f) or Commission Delegated regulation (EU)</p> <p>2017/2100 or Commission Regulation (EU)</p> <p>2018/605 at levels of 0.1% or higher.</p> <p>RTECS: IQ0220000</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not</p> <p>been thoroughly investigated.</p> <p>The following applies to ammonium salts in general: after swallowing: local irritation</p> <p>symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large</p> <p>quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions,</p> <p>respiratory paralysis, haemolysis.</p> <p>Other dangerous properties can not be excluded.</p> <p>Handle in accordance with good industrial hygiene and safety practice.</p>

12. Ecological information

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Toxicity	<p>Toxicity to fish LC50 - Danio rerio (zebra fish) - 396 mg/l - 96 h</p> <p>Remarks: (calculated on the free base)</p>
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Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (algae) - 9 mg/l -

96 h

(US-EPA)

Remarks: The value is given in analogy to the following substances:

dimethylamine

(Dimethylammonium chloride)

Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 96 % - Readily biodegradable. (OECD Test Guideline 301C) Result: value is given in analogy to the following substances: dimethylamine

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission

Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects No data available

13. Disposal considerations

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Waste treatment methods No data available

14. Transport information

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Hazard Pictograms:

UN Number

Proper shipping name

ADR/RID: - IMDG: - IATA: -

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es) 8

ADR/RID

ADR/RID: - IMDG: - IATA: -

Packing group

Packing group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations
Chemical safety assessment

This material safety data sheet complies with the relevant regulations
Observe work restrictions regarding maternity protection and other regulations where applicable.Take note of Directive 90/269/EEC
For this product a chemical safety assessment was carried out

16. Other information

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Other Information

The information above is believed to be accurate and complete and is available to us. However, we make no warranty of accuracy or completeness, implied, with respect to such information, and we assume no liability for any loss or damage, including lost profits or any special, indirect, incidental, consequential or punitive damages, arising, even if **Rx Marine International** has been advised in writing of the defect.

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Signal Word

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