

Safety Data Sheet

COMMISSION REGULATION (EU) NO 2015/830 OF 1st June 2015

Amending Annex II of Regulation EU No 453/2010

Revision No-06

Printing Date 25/08/2020

Product Name – Dimethylamine Hydrochloride

Revision Date- 24/08/2020

1. Identification Of the Substance

1.1 Product Identifier

- **Product Name:** Dimethylamine Hydrochloride (Dimethylammonium Chloride)
- **CAS No:** 506-59-2
- **EC No:** 208-046-5

1.2 Relevant Identified Uses of the substance or mixture and uses advised against: As an intermediate

1.3 Details of the Supplier of the Safety Data Sheet

– **Manufacturer/supplier:**

Alkyl Amines Chemicals Ltd
401-407, Nirman Vyapar Kendra, Plot No-10
Sect-17, Vashi, Navi Mumbai
India – 400703

Emergency Contact no- +91 2117 235175 / 235222 **Mobile no** -+919423002721 / +919881973507

Emergency Contact No for US only- +1 703 527 3887 / 800 424 9300

e-mail Address of the competent Person responsible for Safety Data Sheet:

rsattigeri@alkylamines.com

Information Dept: R&D

1.4 Emergency Telephone Numbers : As mentioned above

2. Hazard Identification

2.1 Classification of Substance or Mixture

– **Classification According to EC regulation 1272/2008**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation

2.2 Label Elements

- **Labelling According to Regulation EC 1272/2008**

The substance is classified according to CLP Regulation

Hazard Pictogram



GHS07

Signal Word- Warning

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

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Prevention:**P280** Wear protective gloves/protective clothing/eye protection/face protection.**P270** Do not eat, drink or smoke when using this product.**Response:****P302+P352** If ON SKIN, wash with plenty of soap and 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.**P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.**P304+P340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**P330** Rinse mouth.**P332+P313** If skin irritation occurs: Get medical advice/attention.**P337+P313** If eye irritation persists: Get medical advice/attention**Storage:****P403+P233** Store in a well-ventilated place. Keep container tightly closed.**Disposal:****P501** Dispose of contents in accordance with local/ regional/national/international regulation**-2.3 Other hazards**

Risk of dust explosion.

In case of dust forming organic products the possibility of dust explosion is generally to be expected.

Results of PBT and vPvB assessment· **PBT:** Not applicable.· **vPvB:** Not applicable**3. Composition/Information on Ingredients**

Description	CAS No	EC No	Content (% w/w)
Dimethylamine Hydrochloride	506-59-2	208-046-5	>99.5

Molecular Formula – (CH₃)₂NH₂.HCl**Molecular Wt**- 81.54 g/mole**4. First- Aid Measures****--4.1 Description of first aid measures****- General information:**

Immediately remove any clothing contaminated by the product.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

-After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

-After skin contact:

Instantly rinse with water.

If skin irritation continues, consult a doctor.

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

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting; instantly call for medical help.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.**- 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5. Fire Fighting Measures

-5.1 Extinguishing media

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents** none

-5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

-5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.

-Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid causing dust.

Do not breathe dust.

Avoid contact with skin and eyes.

- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Collect mechanically.

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and Storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Do not breathe dust.

Avoid contact with skin and eyes.

Make sure that all applicable workplace limits are observed.

- Information about protection against explosions and fires:

Risk of dust explosion if enriched with fine dust in presence of air.

Keep ignition sources away - Do not smoke.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and containers:

Observe all local and national regulations for storage of water polluting products.

- **Information about storage in one common storage facility:** Not required.

- Further information about storage conditions:

Store under shade at ambient temperature (<45°C) & dry conditions in well-sealed containers

This product is hygroscopic.

Protect from humidity and keep away from water.

-7.3 Specific end use(s) No further relevant information available.

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8. Exposure Control/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Do not eat, drink or smoke while working.
Instantly remove any contaminated garments.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
Use breathing protection in case of dust formation.
Filter P2.
- **Protection of hands:**
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves**
Nitrile rubber - NBR
Recommended thickness of the material: ≥ 0.11 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
Penetration time: ≥ 8 hours
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses
- **Body protection:** Protective work clothing

9. Physical and Chemical Properties

-9.1 Information on basic Physical and Chemical Properties

General Information-

Appearance/Physical state /colour	White crystalline solids
Explosive limit Upper lower	No data available
Odour	No specific odour
Vapour pressure	No data available
Odour Threshold	No data available
Vapour density	No data available
PH (10% in water)	5 @ 20 °C
Bulk Density	0.64 g/cm ³ @ 25 °C
Melting point/freezing point	170 °C
Solubility in water	3000 g/l @ 20 °C
Initial Boiling Point/Boiling Range	Not applicable, material decomposes
Flash Point	Not applicable

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Evaporation Rate	No data available
Flammability (solid, gas)	Not Applicable
Partition Coefficient : n-Octanol Water	Log Pow=- 3.28
Auto ignition Temperature	Not applicable
Decomposition temperature	>170 °C
Viscosity- dynamic Kinematic	Not applicable
Danger of Explosion	Not applicable

-9.2 Other Information- Not applicable

10. Stability and Reactivity

-10.1 Reactivity

-10.2 Chemical stability

-Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat temperature over 170°C

-10.3 Possibility of hazardous reactions

Formation of nitrosamines possible.

Possibility of formation of nitrosamines with nitrites or other nitrosating agents

Risk of dust explosion if enriched with fine dust in presence of air.

-10.4 Conditions to avoid No further relevant information available.

-10.5 Incompatible materials:

Strong oxidizing agents

- 10.6 Hazardous decomposition products:

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

11. Toxicological Information

-11.1 Information on Toxicological effects

Acute Toxicity –

LD50/LC50 value that are relevant for classification

LD50 Oral (rat)	1070 mg/kg
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-Primary irritant effect

-on the skin: irritating to skin

-on the eyes: irritant effect

-Sensitization: No sensitizing effects known

-Additional toxicological information – further hazardous properties can not be excluded.

12. Ecological Information

-12.1 Toxicity

-Aquatic toxicity: No further relevant information available.

-12.2 Persistence and degradability No further relevant information available.

-12.3 Bioaccumulative potential

log P(o/w): -3.28

Does not accumulate in organisms.

-12.4 Mobility in soil No further relevant information available.

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-Additional ecological information:

- General notes:** Water hazard class 1 (Assessment by list): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available

13. Disposal Consideration**-13.1 Waste treatment methods****-Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Waste disposal key number:** According to local/national regulations.

-European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- Uncleaned packagings:

- Recommendation:** Disposal must be made according to official regulations.

Decontamination of bag may be done by repetitive aqueous water washing. It is strongly recommended to disfigure the bags/fibre drum before disposal.

14. Transport Information**-14.1 UN-Number**

-**ADR, IMDG, IATA** Void

-14.2 UN proper shipping name

-**ADR, IMDG, IATA** Void

-14.3 Transport hazard class(es)

-**ADR, IMDG, IATA**

-**Class** Void

-14.4 Packing group

-**ADR, IMDG, IATA** Void

-14.6 Special precautions for user Not applicable.**-14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

-**Transport/Additional information:** Not dangerous according to the above specifications.

-**UN "Model Regulation":** -

15. Regulatory Information

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

- **National regulations**

- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.

- **Water hazard class:**

Water hazard class 1 (Assessment by list): slightly hazardous for water

ID-Number: 457

- **Chemical Safety Assessment:** A chemical Safety Assessment has not been carried out

16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Dept Issuing MSDS- R&D

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Only Representative : Global Product Compliance (Europe) AB, Lund , Sweden**e-mail: sk@reach-onlyrep.eu info@gpcregulatory.com****Abbreviations and acronyms:***RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the**International Transport of Dangerous Goods by Rail)**IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent***Ref-**

- 1) *Regulation (EC) No 1272/2008 of the European Parliament and of the Council*
- 2) *Guidance on the compilation Safety Data Sheet published by ECHA Ver. 2.1 Feb 2014*
- 3) *Chem-watch Gold MSDS for Dimethylammonium chloride*
- 4) *Toxnet HSDB*
- 5) *European Chemicals Agency, <http://echa.europa.eu/>*