

Di-methylamine

Print date 28.03.2023
Revision date 28.03.2023
Version 12.0 (en)
replaces version of 27.07.2018 (11.0)

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

1.1 Product identifier

| | |
|-------------------------------|------------------|
| Trade name/designation | Di-methylamine |
| Art-Nr(n). | 1120, 70112 |
| Substance name | di-methylamine |
| INDEX No. | 612-001-00-9 |
| EC No. | 204-697-4 |
| REACH No. | 01-2119475495-27 |
| CAS No. | 124-40-3 |

*** 1.2 Relevant identified uses of the substance or mixture and uses advised against**

- * **Use of the substance/mixture**
Intermediate.

1.3 Details of the supplier of the safety data sheet

Supplier

GHC Gerling, Holz & Co. Handels GmbH
Ruhrstraße 113
D-22761 Hamburg
Telephone +49 40 853 123 0
E-mail hamburg@ghc.de
Website www.ghc.com

Department responsible for information:
GHC Gerling, Holz & Co. Handels GmbH
Telephone +49 40 853 123 0

E-mail (competent person):
msds@ghc.de

*** 1.4 Emergency telephone number**

EN: Poison Information Center Mainz +49 6131 19240

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

| Classification according to Regulation (EC) No 1272/2008 [CLP] | Classification procedure |
|--|--------------------------|
|--|--------------------------|

Flam. Gas 1A, H220
Press. Gas (Liq.), H280
Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H335
Aquatic Chronic 3, H412

Hazard statements for physical hazards

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

Hazard statements for health hazards

H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

* 2.2 Label elements

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

Hazard pictograms



GHS02



GHS05



GHS07

Signal word

Danger

Hazard statements

H220 Extremely flammable gas.
 H280 Contains gas under pressure; may explode if heated.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

* Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe gas/vapours.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing and eye/face protection.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P315 Get immediate medical advice/attention.
 P403 Store in a well-ventilated place.

* Supplemental hazard information

Please return container with residual pressure.

* 2.3 Other hazards

* Adverse human health effects and symptoms

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
 Contact with liquid may cause cold burns/frostbite.

* Other adverse effects

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.

* Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

* SECTION 3: Composition / information on ingredients

* 3.1 Substances

| | |
|------------------------------------|---|
| Substance name | di-methylamine |
| INDEX No. | 612-001-00-9 |
| EC No. | 204-697-4 |
| REACH No. | 01-2119475495-27 |
| CAS No. | 124-40-3 |
| Specific concentration limit (SCL) | Skin Irrit. 2;H315: C>=5% Eye Dam. 1;H318: C>=5% Eye Irrit. 2;H319: 0.5%<=C<5% STOT SE 3;H335: C>=5% |

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

ATE

ATE(oral): approx. 1000 mg/kg
 ATE(dermal): 3900 mg/kg
 ATE(inhalation gas): 5290 ppm

* Additional information

Content: >= 99,8 %

* 3.2 Mixtures

not applicable

* SECTION 4: First aid measures

* 4.1 Description of first aid measures

* General information

Remove contaminated, saturated clothing immediately.
 Call a physician immediately.
 First aider: Pay attention to self-protection!

* Following inhalation

Remove casualty to fresh air and keep warm and at rest.
 In the event of pulmonary irritation treat initially with corticoid spray, e.g. Ventolair- or Pulmicort- metered-dose aerosol (Ventolair and Pulmicort are registered trademarks).
 In case of respiratory standstill give artificial respiration by respiratory bag (Ambu bag) or respirator. Obtain medical assistance.

* Following skin contact

In case of skin contact rinse with warm water.
 In case of frostbite, wash with plenty of water; do not remove clothing.
 In case of frostbite rinse with lukewarm (not hot) water for at least 15 minutes. Do not remove clothing frozen to the skin.
 Thaw with lukewarm water. Apply a sterile dressing. Obtain medical assistance.

* After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical assistance.

* Following ingestion

Ingestion is not considered a potential route of exposure.

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

* Symptoms

Dyspnoea
 Pulmonary oedema
 Strong eye irritation.
 Respiratory tract irritation

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

* Notes for the doctor

Treat symptomatically.
 Pulmonary oedema prophylaxis.
 To supervise the blood circulation.

* SECTION 5: Firefighting measures

* 5.1 Extinguishing media

* Suitable extinguishing media

Extinguishing powder
 Foam
 Water spray jet

* Unsuitable extinguishing media

Full water jet
 Carbon dioxide (CO₂)

Di-methylamine

Print date 28.03.2023
Revision date 28.03.2023
Version 12.0 (en)
replaces version of 27.07.2018 (11.0)

* **5.2 Special hazards arising from the substance or mixture**

- * **Hazardous combustion products**
In case of fire formation of dangerous gases possible.
Nitrogen oxides (NOx)
Carbon monoxide
Carbon dioxide (CO2)

* **5.3 Advice for firefighters**

- * **Special protective equipment for firefighters**
Wear a self-contained breathing apparatus and chemical protective clothing.

* **Additional information**

If possible, shut off gas valves and move containers to a safe location.
Use water spray jet to protect personnel and to cool endangered containers.
Exposure to fire may cause rupture / explosion of the containers.
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.
Dispose of fire residues and contaminated extinguishing water in accordance with local, official regulations.

* **SECTION 6: Accidental release measures**

* **6.1 Personal precautions, protective equipment and emergency procedures**

- * **For non-emergency personnel**
Use personal protection equipment.
Leave the danger area.
Keep people away and stay on the upwind side.
- * **For emergency responders**
Personal protection by wearing close-fitting protective clothing and breathing apparatus.
Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.
Eliminate all ignition sources if safe to do so.
Remove persons to safety.

* **6.2 Environmental precautions**

If possible, stop flow of product.
Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.

* **6.3 Methods and material for containment and cleaning up**

- * **For containment**
If necessary, secure leaky pressure receptacles using a salvage container.
Prevent the liquid from spreading over a wide area (set up barriers, cover sewage systems).
Limit expansion of the gas (water spray jet).
- * **For cleaning up**
Leave to vapourize.
Provide adequate ventilation.

* **6.4 Reference to other sections**

Disposal: see section 13
Personal protection equipment: see section 8

* **SECTION 7: Handling and storage**

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

*** 7.1 Precautions for safe handling**

- * Protective measures**
 Use only in well-ventilated areas.
 Transfer and handle product only in closed systems.
 Usual measures for fire prevention.
 Containers' temperature should not be increased above 50 °C.
 The working pressure in the receptacle must not exceed the saturation vapour pressure of the pure product resulting at a temperature of 50 °C.
 Prevent cylinders from falling over.
 Take precautionary measures against static discharges. Ground barrels and installations. Use only antistatically equipped (spark-free) tools.
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
 Ensure valve protection device is correctly fitted.
 Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
 Open valve slowly to avoid pressure shock.
 Do not allow backflow into the container.
 Entering of water into the container must be prevented.
 No water to valves, flanges and other fittings.
 Purging of pipes and valves with inert gases - to avoid: water, solvents.
- * Advices on general occupational hygiene**
 When using do not eat, drink, smoke, sniff.
 Wash hands before breaks and after work.
 Remove contaminated clothing and protective equipment before entering eating areas.

*** 7.2 Conditions for safe storage, including any incompatibilities**

- * Requirements for storage rooms and vessels**
 All regulations and local requirements for the storage of containers have to be respected.
 Keep container tightly closed and in a well-ventilated place.
 Containers' temperature should not be increased above 50 °C.
 Prevent cylinders from falling over.
 Only use containers specifically approved for the substance/product.
 Information on suitable materials for receptacles and valves see ISO 11114.

Storage class

2A Gases (except aerosol dispensers and lighters)

- * Materials to avoid**
 Do not store together with explosives.
 Do not store together with flammable liquids.
 Do not store together with flammable solids.
 Do not store together with pyrophoric and self-heating substances.
 Do not store together with oxidizing liquids or oxidizing solids.
 Do not store together with toxic liquids or toxic solids.
 Do not store together with infectious substances.
 Do not store together with radioactive material.
 Do not store together with food or feed.

*** 7.3 Specific end use(s)**

- * Recommendation**
 An exposure scenario is not required.
 Use only as an intermediate under strictly controlled conditions.

*** SECTION 8: Exposure controls/personal protection***** 8.1 Control parameters***** Occupational exposure limit values**

| CAS No. | EC No. | Substance name | occupational exposure limit value |
|----------|-----------|----------------|---|
| 124-40-3 | 204-697-4 | Dimethylamine | 2 [ml/m ³ (ppm)] 3,8 [mg/m ³] Short-term(ml/m ³) 5 Short-term(mg/m ³) 9,4 (IE) |

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

* **DNEL worker**

| CAS No. | Substance name | DNEL value | DNEL type | Remark |
|----------|----------------|-------------------------|---------------------------------|------------------------|
| 124-40-3 | di-methylamine | 0.263 mg/kg bw/day | long-term dermal (systemic) | Assessment factor 100 |
| 124-40-3 | di-methylamine | 1.854 mg/m ³ | long-term inhalative (systemic) | Assessment factor 25 |
| 124-40-3 | di-methylamine | 0.824 mg/m ³ | long-term inhalative (local) | Assessment factor 15 |
| 124-40-3 | di-methylamine | 28.56 mg/m ³ | acute inhalative (systemic) | Assessment factor 12.5 |

* **DNEL Consumer**

| CAS No. | Substance name | DNEL value | DNEL type | Remark |
|----------|----------------|-------------------------|------------------------------------|-----------------------|
| 124-40-3 | di-methylamine | 0.33 mg/m ³ | long-term inhalative (systemic) | Assessment factor 50 |
| 124-40-3 | di-methylamine | 21.33 mg/m ³ | acute inhalative (systemic) | Assessment factor 25 |
| 124-40-3 | di-methylamine | 0.615 mg/m ³ | long-term inhalative (local) | Assessment factor 30 |
| 124-40-3 | di-methylamine | 0.095 mg/kg bw/day | long-term dermal (systemic) | Assessment factor 200 |
| 124-40-3 | di-methylamine | 0.095 mg/kg bw/day | Long-term – oral, systemic effects | Assessment factor 200 |

* **PNEC**

| CAS No. | Substance name | PNEC Value | PNEC type | Remark |
|----------|----------------|----------------|-------------------------------|-----------------------|
| 124-40-3 | di-methylamine | 0.006 mg/L | aquatic, marine water | Assessment factor 100 |
| 124-40-3 | di-methylamine | 0.038 mg/kg dw | soil | |
| 124-40-3 | di-methylamine | 0.06 mg/L | aquatic, freshwater | Assessment factor 10 |
| 124-40-3 | di-methylamine | 0.06 mg/L | aquatic, intermittent release | Assessment factor 10 |
| 124-40-3 | di-methylamine | 0.33 mg/kg dw | sediment, marine water | |
| 124-40-3 | di-methylamine | 3.26 mg/kg dw | sediment, freshwater | |
| 124-40-3 | di-methylamine | 100 mg/L | sewage treatment plant (STP) | Assessment factor 10 |

* **8.2 Exposure controls*** **Appropriate engineering controls*** **Technical measures to prevent exposure**

Transfer and handle only in enclosed systems.
 Use only as an intermediate under strictly controlled conditions.

* **Personal protection equipment****Eye/face protection**

Protective goggles according to EN 166, in case of increased risk add protective face shield.

* **Hand protection**

Safety gloves according to EN 374:

Glove material specification [make/type, thickness, permeation time/life]: PVC, >= 0,5 mm, >= 480 min

* **Body protection:**

Safety shoes with steel toecap.

Body covering work clothing or chemical resistant suit at increased risk.

* **Respiratory protection**

Keep self contained breathing apparatus readily available for emergency use.

Respiratory protection necessary at:

high concentrations

Suitable respiratory protection apparatus:

Respiratory protection complying with EN 137.

Short term: filter apparatus, filter K

In case of rescue and maintenance activities in storage containers use environment-independent breathing apparatus because of risk of suffocation due to displacement of oxygen.

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

* **Thermal hazards**
 Use cold-resistant protective equipment.

* **Environmental exposure controls**

* **Remark**
 Prevent release to the environment.

* **SECTION 9: Physical and chemical properties**

* **9.1 Information on basic physical and chemical properties**

Physical state

Gaseous / liquefied under pressure.

Colour

colourless

Odour

like:
 Amines

Safety relevant basis data

| | Value | Method | Source, Remark |
|--|-------------------------------------|--------|----------------|
| Odour threshold: | | | not determined |
| Melting point/freezing point | | | not applicable |
| Boiling point or initial boiling point and boiling range | 7 °C pressure 1013 hPa | | |
| flammability | | | flammable |
| Lower and upper explosion limit | Upper explosion limit 14.4 Vol-% | | |
| Lower and upper explosion limit | Lower explosion limit 2.8 Vol-% | | |
| Flash point | | | not applicable |
| Auto-ignition temperature | approx. 400 °C | | |
| Decomposition temperature | 400 °C | | |
| pH | | | not applicable |
| Viscosity | | | not applicable |
| Solubility(ies) | Water solubility | | miscible |
| Partition coefficient n-octanol/water (log value) | -0.38 | | |
| Vapour pressure | 1703 hPa (20°C) | | |
| Density and/or relative density | | | not applicable |
| Relative vapour density | 1.6 | | air = 1 |
| particle characteristics | | | not applicable |

* **9.2 Other information**

* **Information with regard to physical hazard classes**

* **Gases under pressure**

Safety characteristics

| | Value | Method, Result | Source, Remark |
|----------------------|----------|----------------|----------------|
| Critical temperature | 164.6 °C | | |

* **Other information**
 Vapours are heavier than air.

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

*** SECTION 10: Stability and reactivity***** 10.1 Reactivity**

May form an explosive mixture with air.

*** 10.2 Chemical stability**

The substance is chemically stable under recommended conditions of storage, use and temperature.

*** 10.3 Possibility of hazardous reactions**

Reactions with numerous chemical compounds.
 May react violently with oxidants.
 Reactions with halogenated compounds.
 Reactions with alcohols.

*** 10.4 Conditions to avoid**

Heat sources / heat - risk of bursting.
 Ignition sources, open flames, glowing metal surfaces, etc.

*** 10.5 Incompatible materials**

Copper, brass and other copper alloys
 mercury (Hg).
 Chlorine

*** 10.6 Hazardous decomposition products**

When handled and stored appropriately, no dangerous decomposition products are known.

*** SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008***** Acute toxicity***** Animal data**

| | Effective dose | Method, Evaluation | Source, Remark |
|---------------------------|--|--------------------|----------------|
| Acute oral toxicity | CAS No.124-40-3 di-methylamine LD50: approx. 1000 mg/kg Species Rat | BASF-Test | |
| Acute dermal toxicity | CAS No.124-40-3 di-methylamine LD50: 3900 mg/kg Species Rat | | |
| Acute inhalation toxicity | CAS No.124-40-3 di-methylamine Acute inhalation toxicity (gas) LC50: 5290 ppm Species Rat Exposure time 1 h | | |

*** Assessment/classification**
Harmful if inhaled.*** Skin corrosion/irritation****Animal data**

| Result / Evaluation | Method | Source, Remark |
|---------------------|-----------|-------------------|
| Species Rabbit | BASF-Test | Aqueous solution. |

*** Assessment/classification**
Causes skin irritation.

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

*** Serious eye damage/irritation****Animal data**

| Result / Evaluation | Method | Source, Remark |
|---------------------|---------------|-------------------|
| Species Rabbit | Draize-method | Aqueous solution. |

*** Assessment/classification**
 Causes serious eye damage.

*** Sensitisation to the respiratory tract**

*** Assessment/classification**
 No data available

*** Skin sensitisation**

*** Assessment/classification**
 Study technically not feasible.

*** Germ cell mutagenicity**

| Value | Method | Result / Evaluation | Remark |
|---------------------------------------|--------|---------------------|--------|
| In vitro mutagenicity/genotoxicity | | negative | |
| In vivo mutagenicity/genotoxicity | | negative | |

*** Assessment/classification**
 Based on available data, the classification criteria are not met.

*** Carcinogenicity**

*** Assessment/classification**
 Based on available data, the classification criteria are not met.

*** Reproductive toxicity****Animal data**

| Value | Method | Result / Evaluation | Remark |
|--|----------|---------------------|--------|
| Reproductive toxicity inhalative NOAEL(C): 75 ppm | OECD 422 | | |

*** Assessment/classification**
 Based on available data, the classification criteria are not met.

*** STOT-single exposure***** STOT SE 3***** Irritation to respiratory tract**

*** Assessment/classification**
 May cause respiratory irritation.

*** STOT-repeated exposure***** Animal data**

| Effective dose | Method | Specific effects: | Organs affected: | Source, Remark |
|---|--------|-------------------|------------------|----------------|
| Inhalative specific target organ toxicity (repeated exposure) NOAEL(C): 50 ppm Species Rat (male / female) Exposure duration 1 a | | | | |

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

- * **Assessment/classification**
 Based on available data, the classification criteria are not met.

* **Aspiration hazard**

- * **Remark**
 Study technically not feasible.

11.2 Information on other hazards

No data available

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

* **Aquatic toxicity**

| | Effective dose | Method, Evaluation | Source, Remark |
|---|--|--------------------|---------------------------------|
| Acute (short-term) fish toxicity | LC50: 118 mg/L Species <i>Oncorhynchus mykiss</i> (Rainbow trout) Test duration 96 h | | |
| Chronic (long-term) fish toxicity | not determined | | |
| Acute (short-term) toxicity to crustacea | EC50 88.67 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 48 h | EU Method C.2 | |
| Chronic (long-term) toxicity to aquatic invertebrate | not determined | | |
| Acute (short-term) toxicity to algae and cyanobacteria | EC50 9 mg/L Species <i>Raphidocelis subcapitata</i> Test duration 96 h | | |
| Chronic (long-term) toxicity to aquatic algae and cyanobacteria | not determined | | |
| Toxicity to other aquatic plants/organisms | not determined | | |
| Toxicity to microorganisms | EC10 1000 mg/L Species <i>Pseudomonas putida</i> Test duration 30 min | DIN 38412 / part 8 | Analogous to a similar product. |

* **12.2 Persistence and degradability**

| | Value | Method | Source, Remark |
|----------------|---|-----------|--------------------------------|
| Biodegradation | Degradation rate 88 % Test duration 28 d | OECD 301C | CAS No.124-40-3 di-methylamine |

- * **Assessment/classification**
 Readily biodegradable (according to OECD criteria).

* **12.3 Bioaccumulative potential**

| | Value | Method | Source, Remark |
|-------------------------------|------------------------------------|--------|--------------------------------|
| Bioconcentration factor (BCF) | Bioconcentration factor (BCF) 3.16 | (Q)SAR | CAS No.124-40-3 di-methylamine |

- * **Assessment/classification**
 Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

* **12.4 Mobility in soil**

| | Value | Distribution | Transport type | Method | Remark |
|------------------------|--------|--------------|----------------|-----------|--------|
| Half-life time in soil | 4- 508 | | | KOC value | |

Di-methylamine

Print date 28.03.2023
 Revision date 28.03.2023
 Version 12.0 (en)
 replaces version of 27.07.2018 (11.0)

* **12.5 Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

* **12.6 Endocrine disrupting properties**

| | Effective dose | Method, Evaluation | Source, Remark |
|---------------------------------|----------------|--------------------|-----------------|
| Endocrine disrupting properties | | | See section 2.3 |

12.7 Other adverse effects

No data available

* **SECTION 13: Disposal considerations*** **13.1 Waste treatment methods****Waste codes/waste designations according to EWC/AVV**

| Waste code product | Waste name |
|--------------------|---|
| 160504 * | gases in pressure containers (including halons) containing hazardous substances |

* **Appropriate disposal / Product**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
 Prevent release to the environment. No disposal via the sewage.

Appropriate disposal / Package

Transportable pressure equipment (empty, residual pressure): Return to supplier / manufacturer.

* **SECTION 14: Transport information**

| | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--------------------------|--------------------------|------------------------------------|
| 14.1 UN number or ID number | UN 1032 | UN 1032 | UN 1032 |
| 14.2 UN proper shipping name | DIMETHYLAMINE, ANHYDROUS | DIMETHYLAMINE, ANHYDROUS | Dimethylamine, anhydrous |
| 14.3 Transport hazard class(es) | 2.1 | 2.1 | 2.1 |
| 14.4 Packing group | - | - | - |
| 14.5 Environmental hazards | No | No | No |

14.6 Special precautions for user

The protective measures listed in Sections 6, 7 and 8 of the Safety Data Sheet have to be considered.

14.7 Maritime transport in bulk according to IMO instruments

No carriage in bulk.

Land transport (ADR/RID)

| | |
|----------------------------|--------------------------|
| UN number or ID number | UN 1032 |
| UN proper shipping name | DIMETHYLAMINE, ANHYDROUS |
| Transport hazard class(es) | 2.1 |
| Hazard label(s) | 2.1 |
| Classification code | 2F |
| Packing group | - |
| Environmental hazards | No |
| Limited quantity (LQ) | 0 |
| Special provisions | 662 |
| Tunnel restriction code | B/D |

Di-methylamine

Print date 28.03.2023
Revision date 28.03.2023
Version 12.0 (en)
replaces version of 27.07.2018 (11.0)

*** Sea transport (IMDG)**

| | |
|----------------------------|--------------------------|
| UN number or ID number | UN 1032 |
| UN proper shipping name | DIMETHYLAMINE, ANHYDROUS |
| Transport hazard class(es) | 2.1 |
| Packing group | - |
| Environmental hazards | No |
| Limited quantity (LQ) | 0 |
| Marine pollutant | No |
| EmS | F-D, S-U |

*** Air transport (ICAO-TI / IATA-DGR)**

| | |
|----------------------------|--------------------------|
| UN number or ID number | UN 1032 |
| UN proper shipping name | Dimethylamine, anhydrous |
| Transport hazard class(es) | 2.1 |
| Packing group | - |
| Environmental hazards | No |

*** SECTION 15: Regulatory information***** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***** EU legislation***** Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

*** Other regulations (EU)***** To follow:**

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII No 40.
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.
National and local regulations concerning chemicals shall be observed.

*** Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC-value $\geq 99.8\%$

*** 15.2 Chemical Safety Assessment***** National regulations**

For this substance a chemical safety assessment has been carried out.

*** SECTION 16: Other information****Key literature references and sources for data**

Information from our suppliers and data from the "GESTIS Substances Database" and the "Registered Substances" database of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

*** Additional information**

The information contained herein is based on the 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.

Relevant H- and EUH-phrases (Number and full text)

| | |
|------|---|
| H220 | Extremely flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |

Di-methylamine

Print date 28.03.2023
Revision date 28.03.2023
Version 12.0 (en)
replaces version of 27.07.2018 (11.0)

H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Indication of changes

* Data changed compared with the previous version