

dimethylamine, liquefied, under pressure

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

1.1 Product identifier:

Product name	: dimethylamine, liquefied, under pressure
Synonyms	: dimethylamine; methanamine, N-methyl-; DMA (=dimethylamine); N,N-dimethylamine; N-methylmethanamine
Product type REACH	: Substance/mono-constituent (Organic)
CAS number	: 124-40-3
EC index number	: 612-001-00-9
EC number	: 204-697-4
RTECS number	: IP8750000
Molecular mass	: 45.09 g/mol
Formula	: C ₂ H ₇ N

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

1.2.1 Relevant identified uses

Chemical intermediate
Fuel additive
Photographic chemical

1.2.2 Uses advised against

See heading 15.1: Reach Annex XVII - Restriction

1.3 Details of the supplier of the safety data sheet:

Supplier of the SDS

CHEMOGAS NV
Westvaardijk 85
B-1850 Grimbergen Belgium
Tel: +32 2 251 60 87
Fax: +32 2 252 17 51
info@chemogas.com

Distributor of the substance

CHEMOGAS NV
Westvaardijk 85
B-1850 Grimbergen Belgium
Tel: +32 2 251 60 87
Fax: +32 2 252 17 51
info@chemogas.com

1.4 Emergency telephone number:

24h/24h: +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statement code(s)
Flam. Gas	category 1	H220: Extremely flammable gas.
Press. Gas	Liquefied gas	H280: Contains gas under pressure; may explode if heated.
Acute Tox.	category 4	H332: Harmful if inhaled.
STOT SE	category 3	H335: May cause respiratory irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Dam.	category 1	H318: Causes serious eye damage.

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2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

Xn; R20 - Harmful by inhalation.

Xi; R37/38 - 41 - Irritating to respiratory system and skin. Risk of serious damage to eyes.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

Hazard pictograms



Signal word

Danger

H-statements

- H220 Extremely flammable gas.
 H280 Contains gas under pressure; may explode if heated.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

P-statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P280 Wear protective gloves and eye protection/face protection.
 P261 Avoid breathing.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 + P338

2.3 Other hazards:

CLP

Substance does not meet the screening criteria for persistency nor bioaccumulation so is neither PBT nor vPvB

May build up electrostatic charges: risk of ignition

May be ignited by sparks

Gas/vapour spreads at floor level: ignition hazard

Heat may cause pressure rise in tanks/drums: explosion risk

On contact with water/moisture : corrosive

May cause frostbites

Harmful to fishes

Harmful to invertebrates (Daphnia)

Toxic to algae

SECTION 3: Composition/information on ingredients

3.1 Substances:

Name (REACH Registration No)	CAS No EC No	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
dimethylamine	124-40-3 204-697-4		F+; R12 Xn; R20 Xi; R37/38 - 41	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 Acute Tox. 4; H332 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318	(1)(2)(8)	Mono-constituent

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

3.2 Mixtures:

Not applicable

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SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

Irritation of the respiratory tract. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. Nosebleeding. Possible laryngeal spasm/oedema. Risk of pneumonia. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema.

After skin contact:

Tingling/irritation of the skin. Frostbites.

After eye contact:

Irritation of the eye tissue. Lacrimation. Inflammation/damage of the eye tissue. Visual disturbances.

After ingestion:

Not applicable.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Alcohol-resistant foam. BC powder.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium. Carbon dioxide ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide). On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

5.3 Advice for firefighters:

5.3.1 Instructions:

Take account of environmentally hazardous firefighting water. Dilute toxic gases with water spray. Do not move the load if exposed to heat. If no hazard for/ from the surroundings: controlled burning. Physical explosion risk: extinguish/cool from behind cover. After cooling: persistent risk of physical explosion. If hazardous substances are nearby: consider extinguishment. Cool tanks/drums with water spray/remove them into safety. Extinguish only if gas supply/leak can be shut afterwards. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Compressed air/oxygen apparatus. Gas-tight suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep upwind. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Avoid ingress of water in the containers.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

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6.1.2 Protective equipment for emergency responders

Gas-tight suit.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Tip the container on one side to stop the leakage. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:

Liquid spill: take up in dry absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

< 180 day(s). Ventilation at floor level. Fireproof storeroom. Keep locked up. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Unauthorized persons are not admitted. Aboveground. Limited time of storage. Meet the legal requirements. -29 - 52 °C. Store in a cool area.

7.2.2 Keep away from:

Alcohols, organic materials, halogens, metals, (strong) acids, oxidizing agents, combustible materials, water/moisture.

7.2.3 Suitable packaging material:

Carbon steel, stainless steel.

7.2.4 Non suitable packaging material:

Zinc, copper.

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer .

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Regulatory exposure limit (The Netherlands)

Dimethylamine	Time-weighted average exposure limit 8 h	1.8 mg/m ³	
	Time-weighted average exposure limit, calculated	0.96 ppm	

Indicative exposure limit EU

Dimethylamine	Short time value	5 ppm 9.4 mg/m ³	
	Time-weighted average exposure limit 8 h	2 ppm 3.8 mg/m ³	

Limit Value (Belgium)

Diméthylamine	Short time value	5 ppm 9.4 mg/m ³	
	Time-weighted average exposure limit 8 h	2 ppm 3.8 mg/m ³	

TLV (USA)

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Dimethylamine	Short time value	15 ppm	
	Time-weighted average exposure limit 8 h	5 ppm	

TRGS 900 (Germany)

Dimethylamin	Time-weighted average exposure limit 8 h	2 ppm 3.7 mg/m ³	
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Limit Value (France)

Diméthylamine	Short time value	2 ppm 3.8 mg/m ³	
	Time-weighted average exposure limit 8 h	1 ppm 1.9 mg/m ³	

Limit Value (UK)

Dimethylamine	Short time value	6 ppm 11 mg/m ³	
	Time-weighted average exposure limit 8 h	2 ppm 3.8 mg/m ³	

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Dimethyl Amine	OSHA	34
Dimethyl Amine	NIOSH	2010

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Gas mask with filter type AX. Gas mask with filter type K.

b) Hand protection:

Insulated gloves.

- materials for protective clothing (good resistance)

Tetrafluoroethylene.

- materials for protective clothing (less resistance)

Natural rubber.

- materials for protective clothing (poor resistance)

Polyethylene, neoprene, nitrile rubber, PVA, PVC.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection, Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Gas
Odour	Irritating/pungent odour
	Unpleasant odour

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Odour	Smell of fish
	Ammonia odour
Odour threshold	0.047 - 0.34 ppm
	0.086 - 0.66 mg/m ³
Colour	Colourless
Particle size	Not applicable (gas)
Explosion limits	2.8 - 14.4 vol %
	52 - 270 g/m ³
Flammability	Extremely flammable gas.
Log Kow	-0.38
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	-92 °C
Boiling point	7 °C
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	1793 hPa ; 20 °C
Relative vapour density	1.6
Solubility	water ; 24 g/100 ml
	ethanol ; soluble
	ether ; soluble
Relative density	0.68 ; 0 °C
Decomposition temperature	No data available
Auto-ignition temperature	400 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	12 ; 4.5 %

Physical hazards

Flammable gas
Gas under pressure

9.2 Other information:

Minimum ignition energy	< 0.3 mJ
Specific conductivity	300 pS/m

SECTION 10: Stability and reactivity

10.1 Reactivity:

May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Substance has basic reaction.

10.2 Chemical stability:

Absorbs the atmospheric CO₂.

10.3 Possibility of hazardous reactions:

Reacts violently with many compounds e.g.: with (strong) oxidizers, with (some) acids, with oxygen compounds, with (some) halogens compounds, with organic material and with alcohols with heat release resulting in increased fire or explosion risk. Forms with nitrites carcinogenic nitrosamines.

10.4 Conditions to avoid:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5 Incompatible materials:

Combustible materials, oxidizing agents, (strong) acids, metals, halogens, organic materials, alcohols, water/moisture, copper, zinc.

10.6 Hazardous decomposition products:

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

Reason for revision:

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11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Inhalation	LC50		10.2 mg/l/4h		Rat		literature
Inhalation	LC50		5560 ppm/4h		Rat		literature

Conclusion

Harmful if inhaled.

Corrosion/irritation

dimethylamine, liquefied, under pressure

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Serious eye damage				Rabbit	Experimental value
Dermal	Irritating					literature

Conclusion

Causes serious eye damage.

Causes skin irritation.

Respiratory or skin sensitisation

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No data available

Conclusion

No data available

Specific target organ toxicity

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	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Inhalation (gases)	LC50		17600 ppm	Lungs	Respiratory difficulties	6 minutes	Rat		Experimental value
Inhalation (gases)	LC50		7340 ppm	Lungs	Respiratory difficulties	20 minutes	Rat		Experimental value
Inhalation (gases)	LC50		5290 ppm	Lungs	Respiratory difficulties	60 minutes	Rat		Experimental value

Conclusion

May cause respiratory irritation.

Mutagenicity (in vitro)

dimethylamine, liquefied, under pressure

No data available

Mutagenicity (in vivo)

dimethylamine, liquefied, under pressure

No data available

Carcinogenicity

dimethylamine, liquefied, under pressure

No data available

Reproductive toxicity

dimethylamine, liquefied, under pressure

No data available

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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dimethylamine, liquefied, under pressure

No data available

Conclusion

No data available

SECTION 12: Ecological information

12.1 Toxicity:

dimethylamine, liquefied, under pressure

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		17 mg/l	96 h	Salmo gairdneri / Oncorhynchus mykiss			literature
Acute toxicity invertebrates	EC50		48 mg/l	24 h	Daphnia magna			literature
Toxicity algae and other aquatic plants	EC50		9 mg/l	96 h	Selenastrum capricornutum			literature

Conclusion

Harmful to fishes
 Harmful to invertebrates (Daphnia)
 Toxic to algae
 pH shift

12.2 Persistence and degradability:

dimethylamine, liquefied, under pressure

Biodegradation water

Method	Value	Duration	Value determination
Equivalent or similar to OECD 301F	>60 %	13 day(s)	Experimental value

Conclusion

Readily biodegradable in water

12.3 Bioaccumulative potential:

dimethylamine, liquefied, under pressure

Log Kow

Method	Value	Temperature	Value determination
	-0.38		Literature

Conclusion

Low potential for bioaccumulation (Log Kow < 4)

12.4 Mobility in soil:

dimethylamine, liquefied, under pressure

Volatile organic compounds (VOC)	100 %
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12.5 Results of PBT and vPvB assessment:

Substance does not meet the screening criteria for persistency nor bioaccumulation so is neither PBT nor vPvB.

12.6 Other adverse effects:

dimethylamine, liquefied, under pressure

Global warming potential (GWP)

No data available

Ozone-depleting potential (ODP)

Ozone layer	Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)
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SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

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13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).

16 05 04* (gases in pressure containers (including halons) containing dangerous substances). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number	1032
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14.2 UN proper shipping name:

Proper shipping name	Dimethylamine, anhydrous
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14.3 Transport hazard class(es):

Hazard identification number	23
Class	2
Classification code	2F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	none.

Rail (RID)

14.1 UN number:

UN number	1032
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14.2 UN proper shipping name:

Proper shipping name	Dimethylamine, anhydrous
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14.3 Transport hazard class(es):

Hazard identification number	23
Class	2
Classification code	2F

14.4 Packing group:

Packing group	
Labels	2.1 (+ 13)

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	none.

Inland waterways (ADN)

14.1 UN number:

UN number	1032
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14.2 UN proper shipping name:

Proper shipping name	Dimethylamine, anhydrous
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14.3 Transport hazard class(es):

Class	2
Classification code	2F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Reason for revision:

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Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	none.

Sea (IMDG)

14.1 UN number:

UN number	1032
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14.2 UN proper shipping name:

Proper shipping name	Dimethylamine, anhydrous
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14.3 Transport hazard class(es):

Class	2.1
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14.4 Packing group:

Labels	2.1
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14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

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

Annex II of MARPOL 73/78	
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Air (ICAO-TI/IATA-DGR)

14.1 UN number:

UN number	1032
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14.2 UN proper shipping name:

Proper shipping name	Dimethylamine, anhydrous
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14.3 Transport hazard class(es):

Class	2.1
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14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	A1
Cargo transport: maximum net quantity per packaging	150 kg
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	Forbidden

SECTION 15: Regulatory information

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

European legislation:

REACH Annex XVII - Restriction

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

National legislation

- The Netherlands

Waterbezwaarlijkheid (for NL)	9
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 06

- Germany

WGK	2	Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
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15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

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Labels



F+



Xn

R-phrases

- 12 Extremely flammable
- 20 Harmful by inhalation
- 37/38 Irritating to respiratory system and skin
- 41 Risk of serious damage to eyes

S-phrases

- (02) (Keep out of the reach of children)
- 16 Keep away from sources of ignition - No smoking
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- 39 Wear eye/face protection

Full text of any R-phrases referred to under headings 2 and 3:

- R12 Extremely flammable
- R20 Harmful by inhalation
- R37/38 Irritating to respiratory system and skin
- R41 Risk of serious damage to eyes

Full text of any H-statements referred to under headings 2 and 3:

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

dimethylamine	C => 5 %	Skin Irrit. 2; H315
	C => 5 %	Eye Dam. 1; H318
	0.5 % <= C < 5 %	Eye Irrit. 2; H319
	C => 5 %	STOT SE 3; H335

Specific concentration limits DSD

dimethylamine	C >= 5 %	Xn;R 20-37/38-41
	0,5 % <= C < 5 %	Xi;R 36

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

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