

Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH)

DIMETHYLAMINE HYDROCHLORIDE 70% SOLUTION MIN.

 Version: 2.0
 Form No: 193443

 Preparation Date : 10/7/2019
 Revision Date: 10/7/2019

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	DIMETHYLAMINE HYDROCHLORIDE 70% SOLUTION MIN.
SDS ¹ No	193443
Description	Dimethylamine hydrochloride solution
REACH Reg. Nr.	01-2119489380-34-0004

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	Chemical-industrial applications
Uses Advised Against	See chapter 16 for a general overview

1.3 Details Of The Supplier Of The Safety Data Sheet

Supplier (Manufacturer)	AK-KİM KİMYA SAN. VE TİC. A.Ş. www.akkim.com.tr
Address – Factory	Merkez Mahallesi, Ak-Kim Sokak, No:7 Taşköprü, Çiftlikköy / Türkiye
Telephone	0 226 815 33 00
Fax	0 226 353 25 39
Information Providing Authority About Safety Data Sheet	Ali Haydar KETİR ali.ketir@akkim.com.tr

1.4 Emergency Telephone Number

Company Emergency	0 226 815 33 00
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification According to Regulation (EC) No 1272/2008

- Acute Tox. 4(oral); H302
- Skin Corr. 1; H314

2.2 Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP²/GHS³]

Product Identifier

Hazard Component for Labeling

- Dimethylamine hydrochloride

Hazard Pictograms



Signal Word

DANGER

Hazard Statements

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.	
Precautionary Statements	
General	
· None	
Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/ spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.
P310	Immediately call a POISON CENTER/doctor/ ...
Storage	
-	
Disposal	
-	
Supplemental Hazard Information (EU) Statements	
None	
2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures	
· None.	
2.2.3. Additional Labeling	
· Not Applicable	
2.3 Other Hazards	
2.3.1. Skin Contact	Causes severe skin burns and eye damage.
2.3.2. Eye Contact	Causes severe skin burns and eye damage.
2.3.3. Ingestion	Harmful if swallowed.
2.3.4. Inhalation	Inhalation of gas / vapor / aerosols may cause irritation.
2.3.5. Long term effects	No data available
2.3.6. Adverse Environmental Effects	None
2.3.7 Additional Information	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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Dimethylamine hydrochloride	208-046-5	506-59-2	>=70	Acute Tox. 4(oral); H302 Skin Corr. 1; H314

3.1.1 Additional information

- None

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.1.2 Following inhalation

- Move to fresh air.
- If breathing is irregular or stopped, administer artificial respiration.

4.1.3 Following skin contact

- Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
- Wash contaminated clothing before re-use.
- Call a physician or poison control centre immediately.
- Thoroughly clean shoes before reuse.

4.1.4 Following eye contact

- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- If easy to do, remove contact lens, if worn.
- Call a physician or poison control centre immediately.

4.1.5 Following ingestion

- Seek medical advice.
- Do not induce vomiting without medical advice.
- Never give anything by mouth to an unconscious person.

4.1.6 Self-protection of the first aider

- Pay attention to self-protection

4.1.7 Notes for the doctor

- Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

- Irritation
- Pain
- Eczema

4.3 Indication of any immediate medical attention and special treatment needed

- No data available

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

5.1.1 Suitable Extinguishing media

- Carbon dioxide (CO₂)
- Dry chemical
- Water spray

5.1.2 Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.
- Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous combustion products:
Nitrogen oxides (NO_x)
Carbon monoxide.

5.3 Advice for fire-fighters

- Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

5.3.1 Additional information

- Keep away from open flames.
- Keep away from combustible materials.
- Cool surrounding containers with water spray.
- Use water spray to cool unopened containers.
- If possible, take container out of dangerous zone.
- Do not allow extinguishing water to get into the sewage system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

- Use personal protective equipment.
- Ensure adequate ventilation.

6.1.2 For emergency responders

- Use personal protective equipment.
- Ensure adequate ventilation.
- Evacuate personnel to safe areas.
- Wear respiratory protection, eye protection, hand protection and body protection (Refer to protective measures listed in section 7 and 8).

6.2 Environmental precautions

- Do not let product enter drains.
- Discharge into the environment must be avoided.
- Do not empty into drains or the aquatic environment.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

- Control personal contact by using protective equipment as required.
- Take up contaminated material and pass on for further processing.

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- Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

6.4 Reference to other sections

- Dispose of contaminated material as waste in accordance with section 13.
- See Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Personal preventions

- Do not breathe vapours or spray mist.
- Do not get on skin or clothing.
- Do not get in eyes.
- Do not swallow.
- Ensure adequate ventilation.
- Wash thoroughly after handling.

Fire preventions

- See section 5.

Environmental precautions:

- Dispose of waste material according to local, state and federal regulations.

7.1.2 Advice on general occupational hygiene

- Do not eat, drink or smoke when handling this product.
- Wash hands thoroughly after handling.
- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

- Keep tightly closed.

7.2.1 Advice on common storage

- Containers have to be labelled clearly and permanently.
- DO not store together with oxidizing agents.
- Keep away from heat and ignition sources.

7.2.2 Specific precautions on storage

- The substance should not be stored with substances with which hazardous chemical reactions are possible.

7.3 Specific end use(s)

- Transported isolated intermediate

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

8.1.1 Occupational exposure limits

- Contains no ingredients with exposure limits.

8.2 Exposure controls

- Adequate ventilation should be used during processing.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Do not eat or drink while working.
- Avoid inhalation of vapour, mist or gas

8.2.1 Appropriate engineering controls:

- Provide local exhaust ventilation to control vapor.
- In the immediate working surroundings there must be: Emergency shower installed.
- Make available sufficient washing facilities.
- Provide eye shower and label its location conspicuously.
- See Section 7

8.2.2 Personal protection equipment

8.2.2.1 Eye / Face protection:

- Use safety glasses.



8.2.2.2 Skin protection

Hand protection

- Rubber gloves Neoprene gloves
- The data about break through time/strength of material are standard values!
The exact break through time/strength of material has to be obtained from the producer of the protective glove.



Body protection

- Complete suit protecting against chemicals.



Other protection

- Handle in accordance with good industrial hygiene and safety practice.

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8.2.2.3 Respiratory protection

- In the case of vapour formation use a respirator with an approved filter.
- Filter type : ABEK-filter



8.2.3 Environmental exposure controls

- Legislation for the protection of the environment must be met in full.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Color	Colorless- light yellow
Odor	No data available
Odor Threshold	No data available
	Value
pH	0-2
Melting point / freezing point;	No data available
Initial boiling point and boiling range;	No data available
Flash point;	No data available
Freezing Point	-24 °C
Evaporation rate;	No data available
Flammability (solid, gas);	No data available
Upper/lower flammability or explosive limits;	No data available
Vapour pressure;	No data available
Vapour density;	No data available
Density (kg/l)	No data available
Partition coefficient: n-octanol/water;	No data available
Auto-ignition temperature;	No data available
Decomposition temperature;	No data available
Viscosity (cP) @25°C	No data available
Explosive properties;	No data available
Oxidising properties.	No data available

9.2 Other information

Miscibility	No data available
Fat solubility	No data available
Conductivity,	No data available

Note: The above features were determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous. Substances Regulation Section A-3 or a method comparable to the other.

10. STABILITY AND REACTIVITY

10.1 Reactivity

- No data available

10.2 Chemical stability

- Stable under recommended storage and handling conditions, in closed containers at room temperature. (See section 7.)

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10.3 Possibility of hazardous reactions

- Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid:

- Heat, flames and sparks.

10.5 Incompatible materials:

- Strong oxidizing agents
- Strong acids and strong bases

10.6 Hazardous decomposition products:

- Nitrogen oxides (NO_x)
- Carbon monoxide
- Gaseous hydrogen chloride (HCl)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute or chronic health hazards result from the substance.

11.1.1 Acute toxicity

No data available

11.1.2 Skin corrosion/irritation and Eye damage/irritation:

Skin: Causes severe skin burns and eye damage.

Eye: Causes severe skin burns and eye damage.

11.1.3 CMR effects (Carcinogenicity) :

- IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.1.4 CMR effects (Mutagenicity and Toxicity for reproduction) :

- Reproductive toxicity:
None
- Mutagenicity:
None

11.1.5 Other Toxicological Effects:

Allergic Effects	No data available
Effects on Repeated Doses Chronic Exposures	No data available
Sensitization	No data available.
Developmental Toxicity (Teratogenicity)	No data available.
Fertility	No data available

11.1.6 STOT-single/repeated exposures:

STOT-single exposure	No data available
STOT-repeated exposure	No data available

11.1.7 Symptoms related to the physical, chemical and toxicological characteristics:

In case of inhalation	Inhalation of gas / vapor / aerosols may cause irritation.
In case of skin contact	Causes severe skin burns and eye damage.
In case of eye contact	Causes severe skin burns and eye damage.

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In case of ingestion Harmful if swallowed.

11.1.8 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information.
- The special effects to health are considered by taking into account the information in section 3.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

Decomposition Potential of the products Readily biodegradable.

The half-life of degradation No data available

Potential degradation of product content in the evaluation of wastewater treatment plants No data available

12.3 Bioaccumulative potential

Biological environment (biota) accumulation potential Not determined. However, the product is not considered to bioaccumulative.

Potential - nutrients pass through No data available

Reference Values - Log Kow , Sw and BCF Bioconcentration factor (BCF): 3,16

12.4 Mobility

Liquid.

Refer to eco toxicity.

Water threat class No data available

Clean Water Impact No data available

Known or predicted environmental distribution Koc: 2,4 - 4,7

12.5 Results of PBT and vPvB assessment

Biotic	
Ready biodegradability:	Readily biodegradable.
Abiotic:	
Hydrolysis as a function of pH:	No data available
Photolysis:	No data available
Atmospheric oxidation:	No data available

12.6 Other adverse effects

- See the sections 6, 7, 13, 14 and 15.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Disposal according to local authority regulations.
- Contact waste disposal services.

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13.1.1 Contaminated packaging

- If there is product residue in the emptied container, follow directions for handling on the container's label.
- Contaminated packaging must be emptied of all residues and can be recycled following appropriate cleaning.

13.1.2 Disposal Methods





- Dispose of chemicals waste or in accordance with local regulations.
- Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.
- If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal.

13.1.3 European Waste Catalogue

- The final classification has to be done together with the local waste disposal company / authority.

14. TRANSPORT INFORMATION

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DIMETHYLAMINE HYDROCHLORIDE)

	ADR ⁴ /RID ⁵	ADNR	IMDG ⁶	ICAO ⁷ /IATA ⁸
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DIMETHYLAMINE HYDROCHLORIDE)			
UN/ID No.	3265	3265	3265	3265
SYMBOL				
CLASS	8	8	8	8
PACKAGING GROUP	II	II	II	II
LABELLING NO	8	8	8	8
CLASSIFICATION CODE	C3			
HAZARD NO (HIN NO)	80			
EmS			F-A;S-B	
MARINE Pollutant			NO	
<i>Road Transport Notes: This product is regulated as a hazardous material.</i>				

15. REGULATORY INFORMATION

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

Substance is found on the following regulatory lists;;

- "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)"

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15.2 Chemical Safety Assessment

- No data available

15.2.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

- Acute Tox. 4(oral); H302
- Skin Corr.1; H314

15.2.2 INTERNATIONAL REGULATIONS

- This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to EU Directive GHS/CLP.

16. OTHER INFORMATION

16.1 Other information

- For additional information regarding AK-KIM KIMYA SAN. VE TIC. ŞTİ. Products please contact the AK-KIM KIMYA SAN. VE TIC. A.S.
- The above information complies with the 1907/2006 Directive and its amendments.
- In all cases of potential poisoning supportive therapy is of the utmost importance.

16.1.1 Related Person

- Doruk Chemical Management Systems, Engineering, Technology & Consultancy Inc. Co.
- Prepared by: Selçuk BİLGİN (selcuk.bilgin@doruksistem.com.tr)
- Competent Person Accreditation No: TSE GBF-A-02707 21.12.2017**
www.MsdsMarket.com ; info@doruksistem.com.tr ; 02163378383 (contact for further information if needed)

16.1.2 Revision Date, Version and SDS no

- Date : October 7, 2019
- Version : 2.0
- SDS No : 193443

16.1.3 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

16.1.4 Relevant H- and EUH-phrases (number and full text):

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

16.1.5 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.
- Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
- The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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- The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

¹ SDS: Safety Data Sheet

² CLP: Classification Labelling and Packaging

³ GHS: Global Harmonised System

⁴ ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

⁵ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

⁶ IMDG: International Maritime Code for Dangerous Goods

⁷ ICAO: International Civil Aviation Organization

⁸ IATA: International Air Transport Association

KONTROLÜ KOPYA