

Safety Data Sheet

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

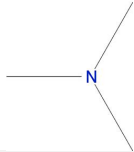
TRIMETHYLAMINE

 Version: 1.0
 Form No: 193251

 Preparation Date : 10/11/2013
 Revision Date: 10/11/2013

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

1.1 Product Identifier

Product Name	TRIMETHYLAMINE
SDS¹ No	193250
CAS² No	75-50-3
EINECS³ No	200-875-0
Chemical Name	Trimethylamine
Chemical Formula	C ₃ H ₉ N
Structural Formula	

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	<ul style="list-style-type: none"> - Laboratory chemicals - Manufacture of substances
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	Denizçalı Köyü, Taşköprü Mevkii, P.K. 39 77600 Yalova / TÜRKİYE
Telephone	0 226 815 33 00
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1.4 Information Providing Authority About Safety Data Sheet

	Ali Haydar KETİR – Environmental Engineer
Telephone	+90 (226) 815 33 00 / 33304
Fax	ali.ketir@akkim.com.tr

1.5 Emergency Telephone Number

Company Emergency	0 226 815 33 00
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2. HAZARDS IDENTIFICATION

2.1 Classification Of The Product

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

- Flammable gases, Category 1; H220
- Gases under pressure, liquefied gas; H280
- Acute toxicity, Category 4, inhalation; H332
- Skin irritation, Category 2; H315
- Serious eye damage, Category 1; H318
- Specific Target Organ Toxicity (single exposure), Category 3; H335

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2.2 Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP⁴/GHS⁵]

Product Identifier

Hazard Component for Labeling
· Trimethylamine

Hazard Pictograms



Signal Word

· Danger

Hazard Statements

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

Precautionary Statements

General

· None

Prevention

- P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261** Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280** Wear protective gloves/ eye protection/ face protection

Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Disposal

· None

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 Hazard Identification

2.3.1. Skin Contact

Harmful if absorbed through skin. Cause skin irritation.

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2.3.2. Eye Contact

Causes serious eye damage.

2.3.3. Ingestion

Harmful if swallowed.

2.3.4. Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

2.3.5. Long term effects

Employees in the fish-processing industry repeatedly exposed to high concentrations of trimethylamine vapor suffered from persistent deep damage to the eye and cornea necrosis[DFG: Toxikologisch-arbeitsmedizinische Begründungen von MAK-Werten; Verlag Chemie].

2.3.6. Adverse Environmental Effects


No data available

2.4. Additional Information

· None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description Of The Substance: Trimethylamine ($\geq 100\%$)

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Trimethylamine	200-875-0	75-50-3	$\geq 100\%$	 <p>DANGER Flammable gases, Category 1; H220 Gases under pressure, liquefied gas; H280 Acute toxicity, Category 4, inhalation; H332 Skin irritation, Category 2; H315 Serious eye damage, Category 1; H318 Specific Target Organ Toxicity (single exposure), Category 3; H335</p>

3.2 Additional information

· None

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

- Remove contaminated clothing.
- 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

- Whilst protecting yourself remove the casualty from the hazardous area and take him to the fresh air.
- Lay the casualty down in a quiet place and protect him against hypothermia.
- As soon as possible repeatedly have the casualty deeply breath a glucocorticoid inhalation spray in.
- In the case of breathing difficulties have the casualty inhale oxygen.

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- Arrange medical treatment.
- If the casualty is unconscious but breathing lay him in a stable manner on his side.

4.1.3 Following skin contact

- Whilst protecting yourself, relocate the casualty away from the source of danger.
- Remove contaminated clothing while protecting yourself.
- Immediately cleanse the affected skin areas with soap under running water.
- Under no circumstances use alcohol, gasoline or other solvents.
- Because of absorptive-toxic effects which possibly start after a delay, call a physician to the site of the accident if the contact was massive, irrespective of the intensity of the irritation. This is also necessary because simultaneous inhalation could have taken place.
- Trimethylamine (TMA) released from compressed gas cylinders can also cause frostbite. Rinse affected areas with lukewarm water, dry them and cover them with sterile material.

4.1.4 Following eye contact

- Rinse the affected eye with widely spread lids for 10 minutes under running water whilst protecting the unimpaired eye.
- Then immediately transport the patient to an eye doctor or to hospital.
- During transport, rinse further with physiological saline solution using an eye-bath if possible.

4.1.5 Following ingestion

- Rinse the mouth and spit the fluids out.
- Have the casualty drink 1 - 2 glasses of water in small sips.
- Do not make the casualty vomit.
- Do not apply charcoal. Call a physician as soon as possible.
- During spontaneous vomiting hold the head of the casualty low with the body in a prone position to avoid aspiration.

4.1.6 Self-protection of the first aider

- Pay attention to self-protection

4.1.7 Notes for the doctor

- TMA is somewhat less corrosive than dimethylamine but its absorptive-toxic action profile was found to be somewhat more pronounced - at least in animal experiments.

5. FIRE-FIGHTING MEASURES

5.1 General Information and Flammable Properties

- The substance/product is combustible.
- Flash Point study scientifically not justified.

5.2 Extinguishing media:

- Dry extinguishing powder.
- Carbon dioxide extinguisher with gas nozzle.

5.3 Unsuitable extinguishing media

- None known.

5.4 Special hazards arising from the product

- Nitrous gases (nitric oxides)

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- Carbon monoxide and carbon dioxide

5.5 Advice for fire-fighters

- Wear NIOSH⁶ approved breathing apparatus, eye and face protector and chemical resistant clothes.

5.6 Additional information

- In the case of fire advise fire fighters on the presence of gas cylinders.
- Cool surrounding containers with water spray.
- If possible, take container out of dangerous zone.
- Heating causes a rise in pressure, risk of bursting and explosion.
- Shut off sources of ignition.
- Only put out fire if the gas flow can be interrupted.
- Risk of explosion from gas accumulation and backfire.
- Contain escaping gases with water spray.
- Use only explosion proved equipment.
- Contaminated extinguishing water must be disposed of in accordance with official regulations
- Do not allow the quenching water into sewage systems

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all sources of ignition.
- Provide adequate ventilation.
- Evacuate area. Warn affected surroundings.
- Attempt to stop the gas from escaping. Otherwise place leaky bottles under a suctioning device or put them outdoors.
- Gas is moving on the ground.
- Contain escaping gases/vapours with water.
- Use non-sparking tools.
- Afterwards ventilate area.
- Refer to protective measures listed in section 7 and 8.
- Put on protective equipment before entering danger area.

6.2 Environmental precautions

- Cover drains.
- Do not allow to enter into soil/subsoil.
- 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.
- Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- Compressed gas cylinders can normally be returned to the supplier.
- Pressurised cans are non-returnable and must be disposed of.
- Do not empty pressure vessels to the point of pressure compensation.
- Mark empty vessels to avoid confusion with full ones.

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- Use protective equipment while cleaning if necessary.
- Only conduct maintenance and other work on or in the vessel or closed spaces after obtaining written permission.

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

7.1.1 Precautions for safe handling

7.1.2 Protective measures

Personal preventions

- Provision of very good ventilation in the working area.
- The gas is heavier than air. Adequate ventilation of the floor area must be ensured as well.
- Devices for detecting and reporting the presence of hazardous gases should be present.
- Protect ducts and sewers against penetration by the gas.
- Water connection with directed spray pipe is necessary.
- Eye bath required. These locations must be signposted clearly.
- Do not store cylinders at the working area.
- Do not force open valve.
- When changing bottles, always inspect the leak-proof closure of the filled and empty bottles.
- Refilling or transfer in storage rooms is prohibited.
- Prevent cylinders from falling over.
- Suck back of water into the container must be prevented. Do not allow backfeed into the container.
- Purge air from equipment before introducing the gas.
- Usually transport occurs in containers with high pressure. Use suitable equipment for the transport.
- Tightly screw on the protective caps and blind nuts when transporting. Secure cylinders against falling over, do not throw.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Fire preventions

- The substance/product is combustible
- See section 5.

Environmental precautions:

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

7.1.3 Advice on general occupational hygiene

- 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

- Containers have to be labelled clearly and permanently.
- Keep container in a well-ventilated place.
- Keep upright, protect against falling over.
- Protect from exposure to sunlight.
- Do not store in escape routes, work rooms, or in direct proximity to them.
- For transporting, storing, preparing, emptying, and maintaining pressurized gas bottles, the detailed rules in TRG 280 must be absolutely adhered to. For pressurised gas packaging, observe the applicable TRG 300.

7.1 Advice on common storage

- Do not use any food containers - risk of mistake.
- Containers have to be labelled clearly and permanently.
- Store in the original container as much as possible.
- Keep container tightly closed.
- Store in a cool place.
- Store in a dry place.
- Keep container in a well-ventilated place.

7.2 Specific precautions on storage

- Storage class 2 A (Gases)
- Only substances of the same storage class should be stored together.
- Collocated storage with the following substances is prohibited:
 - Pharmaceuticals, foods, and animal feeds including additives.
 - Infectious, radioactive und explosive materials.
 - Flammable liquids of storage class 3.
 - Other explosive substances of storage class 4.1A.
 - Flammable solid substances or desensitized substances of storage class 4.1B.
 - Spontaneously flammable substances.
 - Substances liberating flammable gases in contact with water.
 - Strongly oxidizing substances of storage class 5.1A.
 - Oxidizing substances of storage class 5.1B.
 - Organic peroxides and self-reactive substances.
 - Combustible and non-combustible acutely toxic substances of storage classes 6.1A and 6.1B.
 - Combustible toxic or chronically acting substances of storage class 6.1C.
 - Noncombustible toxic or chronically acting substances of storage class 6.1D.
 - Combustible liquids of storage class 10.
- Under certain conditions the collocated storage with the following sub-stances is permitted:
 - Aerosols (spray bottles).
 - Ammonium nitrate and preparations containing ammonium nitrate.

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- Combustible corrosive substances of storage class 8A.
- Combustible solids of storage class 11.
- Consider the regulations of TRG 280 at collocated storage of different compressed gases.
- The substance should not be stored with substances with which hazardous chemical reactions are possible.

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

- TWA : 12 mg/m³ (Denmark)
- STEL : 24 mg/m³ (Denmark)

8.2 Exposure controls

- Adequate ventilation should be used during processing

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:

- Rinse the affected eye with widely spread lids for 10 minutes under running water whilst protecting the unimpaired eye.
- Immediately transport the patient to an eye doctor or to hospital.
- During transport, rinse further with physiological saline solution using an eye-bath if possible.



8.2.2.2 Skin protection

- Whilst protecting yourself, relocate the casualty away from the source of danger.
- Remove contaminated clothing while protecting yourself.
- Immediately cleanse the affected skin areas with soap under running water.
- Under no circumstances use alcohol, gasoline or other solvents.
- Because of absorptive-toxic effects which possibly start after a delay, call a physician to the site of the accident if the contact was massive, irrespective of the intensity of the irritation. This is also necessary because simultaneous inhalation could have taken place.
- Trimethylamine (TMA) released from compressed gas cylinders can also cause frostbite. Rinse affected areas with lukewarm water, dry and cover them with sterile material.



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Other protection

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

8.2.2.3 Respiratory protection

- Whilst protecting yourself remove the casualty from the hazardous area and take him to the fresh air.
- Lay the casualty down in a quiet place and protect him against hypothermia.
- As soon as possible repeatedly have the casualty deeply breath a glucocorticoid inhalation spray in.
- In the case of breathing difficulties have the casualty inhale oxygen.
- Arrange medical treatment.
- If the casualty is unconscious but breathing lay him in a stable manner on his side.



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 Appearance

Form/Physical state	Gaseous
Color	Colorless
Odor	Like amines
	Value
<i>pH (5 % in water solution) @ (20°C)</i>	Not applicable
<i>Freezing point/range (°C)</i>	Not available
<i>Boiling point/range (°C)101,3 kPa</i>	2,9
<i>Melting point (°C)</i>	-117,1
<i>Flash Point (°C)closed cup</i>	-65
<i>Ignition temperature (°C)</i>	190
<i>Viscosity cp</i>	Not applicable
<i>Density g/l (0°C)</i>	2,58
<i>Solubility in water g/l @ 20°C</i>	mixable
<i>Solubility in ester, ketone and hydrocarbons</i>	Not available
<i>Partition coefficient n-Octanol/Water (log Ko/w)</i>	0,16
<i>Explosive Property</i>	Lower explosion limit: 2,0 vol. %, 49 g/m ³ Upper explosion limit: 11,6 vol. %, 285 g/m ³
<i>Oxidation Property</i>	None
<i>Other properties</i>	
<i>Critical temperature (°C)</i>	160,1
<i>Critical pressure (bar)</i>	40,7
<i>Critical density (g/cm³)</i>	0,233

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

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10.2 Chemical stability

- Stable under recommended storage and handling conditions. (See section 7.)

10.3 Possibility of hazardous reactions

- No data available

10.4 Conditions to avoid:

- Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials:

- Strong oxidizing agents, Brass, Magnesium, Zinc, Copper, Mercury/mercury oxides., Tin/tin oxides

10.6 Hazardous decomposition products:

- No data available

10.7 Hazardous polymerization:

- None

11. TOXICOLOGICAL INFORMATION

11.1 General Information

- Routes of exposure:
- During occupational handling of trimethylamine exposure is to be expected via the inhalative and oral intake pathways.

11.2 Acute toxicity

Oral:

- Type of value: LD50
- Species: rat
- Value: approx. 500 mg/kg

Inhalation:

- Type of value: LC50
- Species: mouse
- Value: 19.000 mg/m³

11.3 Skin corrosion/irritation and Eye damage/irritation:

Skin:

- No data available
- **Eye:**
· No data available
- **Sensitization:**
· No data available

11.4 CMR effects (Carcinogenity) :

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

11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :

- No data available

11.6 Other Toxicological Effects:

Allergic Effects | No data available concerning allergic effect.

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Effects on Repeated Doses Chronic Exposures	Cause damage to the eyes.
Sensitization	No data available concerning sensitization effect.
Developmental Toxicity (Teratogenicity)	Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus; intraperitoneal-mouse)
Fertility	Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Newborn: Physical.

11.7 STOT-single/repeated exposures:

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

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

In case of inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
In case of skin contact	Harmful if absorbed through skin. Cause skin irritation.
In case of eye contact	Causes serious eyes damage.
In case of ingestion	Harmful if swallowed

11.9 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information
- EEC classification: Harmful.
- The special effects to health are considered by taking into account the information in section 3.
- RTECS: PA0350000

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Acute Fish Toxicity (LC50 48 hour): 1.000 mg/l (*Oryzias latipes*)
- Acute Daphnia Toxicity (EC50 48 hour): 139 mg/l (*Daphnia magna straus*)
- Acute Algea Toxicity (EC50 96 hour): 74,2 mg/l (*Scenedesmus subspicatus*)
- Acute Microorganisms Toxicity (EC50 72hour): No data available

12.2 Photo degradation

No data available.

12.3 Effects on Waste Water Treatment Plants

Not determined.

12.4 Mobility

Gaseous
 Solubility in water: miscible
 Refer to ecotoxicity.

Water threat class WGK 1 - low hazard to waters

Clean Water Impact No data available

Known or predicted environmental distribution No data available

12.5 Results of PBT and vPvB assessment

Biotic	
Ready biodegradability:	No data available

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<i>Abiotic:</i>	
<i>Hydrolysis as a function of pH:</i>	No data available
<i>Photolysis:</i>	No data available
<i>Atmospheric oxidation:</i>	No data available
Persistence and degradability:	
<i>Decomposition Potential of the products</i>	No data available
<i>The half-life of degradation</i>	No data available
<i>Potential degradation of product content in the evaluation of wastewater treatment plants</i>	No data available
Bioaccumulation Potential :	
<i>Biological environment (biota) accumulation potential</i>	No data available
<i>Potential - nutrients pass through</i>	No data available
<i>Reference Values - Log Kow , Sw and BCF</i>	Log Ko/w: 0,16
12.6 Additional information	
. See the sections 6, 7, 13, 14 and 15.	

13. DISPOSAL CONSIDERATIONS

13.1 Product / Packaging disposal

- Compressed gas cylinders can normally be returned to the supplier.
- Pressurised cans are non-returnable and must be disposed of.
- Do not empty pressure vessels to the point of pressure compensation.
- Mark empty vessels to avoid confusion with full ones.
- 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

13.2 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.

13.3 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

13.4 European Waste Catalogue

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

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14. TRANSPORT INFORMATION

UN1083 TRIMETHYLAMINE, ANHYDROUS

	ADR ⁷ /RID ⁸	ADNR	IMDG ⁹	ICAO ¹⁰ /IATA ¹¹
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	Trimethylamine, anhydrous			
UN/ID No.	1083	1083	1083	1083
SYMBOL				
CLASS	2	2	2	2
PACKAGING GROUP	-	-	-	-
LABELLING NO	2.1	2.1	2.1	2.1
CLASSIFICATION CODE	2F			
HAZARD NO (HIN NO)	23			
EmS			F-D;S-U	
MARINE Pollutant			NO	

Road Transport Notes: This product is regulated as a hazardous material.

15. REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance

Substance is found on the following regulatory lists;;

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

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)

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

15.2.2 RISK

- Extremely flammable
- Harmful by inhalation
- Irritating to respiratory system and skin
- Risk of serious damage to eyes

15.3 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 67/548/EC and GHS/CLP.

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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.Ş** Vedat Ateşoğlu - vatesoglu@akkim.com.tr
- The above information complies with the 199/45/EC and 1907/2006 Directives and their amendments.
- In all cases of potential poisoning supportive therapy is of the utmost importance.

16.2 Related Person

- Vedat Ateşoğlu - vatesoglu@akkim.com.tr Ak-Kim Kimya San. Ve Tic. A.Ş
- Prepared by : Ali Haydar KETİR - Ak-Kim Kimya San. Ve Tic. A.Ş
ali.ketir@akkim.com.tr
- Competent Person Accreditation no : TSE GBF-0855 28.07.2011**

16.3 Revision Date, Version and SDS no

- Date : October 11, 2013
- Version : 1.0
- MSDS No : 193251

16.4 Reason of re-issue

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

16.5 Relevant R-, H- and EUH-phrases (number and full text):

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

16.6 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.
- 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.

Safety Data Sheet

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

TRIMETHYLAMINE

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- ¹ SDS: Safety Data Sheet
² CAS: Chemical Abstract Service
³ EINECS: European INventory of Existing Commercial
⁴ CLP:Classification Labelling and Packaging
⁵ GHS:Global Harmonised System
⁶ NIOSH-National Institute of Occupational Safety and Health(Ulusal İş Sağlığı ve Güvenliği Enstitüsü)
⁷ ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
⁸ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
⁹ IMDG: International Maritime Code for Dangerous Goods
¹⁰ ICAO: International Civil Aviation Organization
¹¹ IATA: International Air Transport Association