

Safety Data Sheet

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

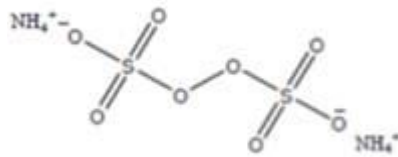
AMMONIUM PERSULFATE

 Version: 1.0
 Form No: 193256

 Preparation Date : 10/30/2013
 Revision Date: 10/30/2013

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

1.1 Product Identifier

Product Name	AMMONIUM PERSULFATE
SDS¹ No	193256
CAS² No	7727-54-0
EINECS³ No	231-786-5
Chemical Name	Diammonium peroxodisulphate
Chemical Formula	H8 N2 O8 S2 = (NH4)2S2O8
Structural Formula	

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	<ul style="list-style-type: none"> - Used as oxidizing and bleaching agent. - There are application areas that used as the reducing and oxidizing agent in yarn dyeing and photography.
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
Fax	0 226 353 25 39

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

- Oxidising solids, Category 3; H272
- Acute toxicity, Category 4, oral; H302
- Skin irritation, Category 2; H315
- Eye irritation, Category 2; H319
- Specific Target Organ Toxicity (single exposure), Category 3; H335
- Skin sensitisation, Category 1; H317
- Respiratory sensitisation, Category 1; H334

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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

· Ammonium persulfate

Hazard Pictograms



Signal Word

· Danger

Hazard Statements

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary Statements

General

· None

Prevention

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.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage

· None

Disposal

· None

Supplemental Hazard Information (EU) Statements

· None

2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures

· None

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2.2.3. Additional Labeling

· Not Applicable

2.3 Hazard Identification

2.3.1. Skin Contact

Harmful if absorbed through skin. Cause skin irritation.

2.3.2. Eye Contact

Causes serious eye irritation.

2.3.3. Ingestion

Harmful if swallowed.

2.3.4. Inhalation

May cause respiratory irritation, allergy, asthma symptoms or breathing difficulties if inhaled.

2.3.5. Long term effects

No data available

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:

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Ammonium persulfate	231-786-5	7727-54-0	> 99	 <p>DANGER Oxidising solids, Category 3; H272 Acute toxicity, Category 4, oral; H302 Skin irritation, Category 2; H315 Eye irritation, Category 2; H319 Specific Target Organ Toxicity (single exposure), Category 3; H335 Skin sensitisation, Category 1; H317 Respiratory sensitisation, Category 1; H334</p>

Notes: Oxygen[CAS#7782-44-7]<1%; Ozone[CAS#10028-15-6]<1%

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

- Move to fresh air If breathing is difficult, give oxygen.

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- Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device.
- Immediate medical attention is required.

4.1.3 Following skin contact

- Wash off immediately with plenty of water for at least 15 minutes.
- Immediate medical attention is required.

4.1.4 Following eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Obtain medical attention.

4.1.5 Following ingestion

- Never give anything by mouth to an unconscious person.
- Rinse mouth with water.
- Consult a physician.

4.1.6 Self-protection of the first aider

- Pay attention to self-protection

4.1.7 Notes for the doctor

- No data available

5. FIRE-FIGHTING MEASURES

5.1 General Information and Flammable Properties

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

5.2 Extinguishing media:

- Water spray
- Alcohol-resistant foam
- Dry chemical
- Carbon dioxide

5.3 Unsuitable extinguishing media

- None known.

5.4 Special hazards arising from the product

- Nitrous gases (nitric oxides)
- Sulphuric oxides

5.5 Advice for fire-fighters

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

5.6 Additional information

- Substance is non-combustible, but has an oxidizing effect.
- In case of ambient fire:
 - Cool surrounding containers with water spray.
 - If possible, take container out of dangerous zone.
 - Rise in pressure and risk of bursting when heating.
- Contaminated extinguishing water must be disposed of in accordance with official regulations
- Do not allow the quenching water into sewage systems

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate area.
- Warn affected surroundings.
- The hazardous area may only be entered once suitable protective measures are implemented. Only then can the hazardous situation be removed.
- Carefully sweep up, gather and remove.
- Avoid rising dust.
- Afterwards ventilate area and wash spill site.
- 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

- Sweep up and shovel.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
- Keep in suitable, closed containers for disposal.
- Use protective equipment while cleaning if necessary.

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

- Work areas should be physically separated if possible.
- Provision of good ventilation in the working area.
- The cleaned air should not be returned to the working area.
- Air that has been pumped out can only be returned if it has been sufficiently cleaned using an acknowledged method.
- Washing facility at the workplace required.
- Eye bath required. These locations must be signposted clearly.

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- When handling excessive amounts of the substance an emergency shower is required.
- Take care to maintain clean working place.
- The substance must not be present at workplaces in quantities above that required for work to be progressed.
- Do not leave container open.
- Use leak-proof equipment with exhaust for refilling or transfer.
- If necessary use dry propellant gas.
- Avoid spillage.
- Fill only into labelled container.
- Avoid any contact when handling the substance.
- Avoid rising dust.
- 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 non-combustible
- See section 5.

Environmental precautions:

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

7.1.3 Advice on general occupational hygiene

- Clean daily.
- Use protective equipment while cleaning if necessary.
- Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.
- Use tested industrial vacuum cleaners of class M.
- Do not raise dust while cleaning.
- Use of a blower for cleaning is not permitted.
- A device that has become dirty may only be used in other work areas after it has been cleaned.
- 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

- 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.
- Recommended storage at room temperature.
- Store in a dry place.
- Keep container in a well-ventilated place.
- Store apart from sources of ignition and heat.

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- Protect from overheating/heating up.
- Unsuitable materials: The aqueous solution corrodes metals.
- Dangerous can be the contact with textiles, rust, iron, copper.

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 5.1 B (Oxidizing substances)
- 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 substances.
 - Gases.
 - Aerosols (spray bottles).
 - Other explosive substances of storage class 4.1A.
 - Spontaneously flammable substances.
 - Substances liberating flammable gases in contact with water.
 - Organic peroxides and self-reactive substances.
- Under certain conditions the collocated storage with the following sub-stances is permitted:
 - Flammable liquids of storage class 3.
 - Flammable solid substances or desensitized substances of storage class 4.1B.
 - Ammonium nitrate and preparations containing ammonium nitrate.
 - 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 corrosive substances of storage class 8A.
 - Combustible liquids of storage class 10.
 - Combustible solids of storage class 11.
- 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

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protection.

8.1.1 Occupational exposure limits

- TWA : 0.1 mg/m³ (ACGIH)

8.2 Exposure controls

- Adequate ventilation should be used during processing

8.2.1 Appropriate engineering controls:

- Provide local exhaust ventilation to control dust.
- 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:

- Sufficient eye protection must be worn.
- Wear glasses with side protection.



8.2.2.2 Skin protection

- Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care.
- Skin protection cremes do not protect sufficiently against the substance.
- The following information is valid for aqueous, saturated solutions of the substance.
- The following materials are suitable for protective gloves (Permeation time \geq 8 hours):
- Natural rubber/Natural latex - NR (0,5 mm) (use non-powdered and allergen free products)
- Polychloroprene - CR (0,5 mm)
- Nitrile rubber/Nitrile latex - NBR (0,35 mm)
- Butyl rubber - Butyl (0,5 mm)
- Fluoro carbon rubber - FKM (0,4 mm)
- Polyvinyl chloride - PVC (0,5 mm)
- The times listed are suggested by measurements taken at 22 °C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contact the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.



Other protection

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

8.2.2.3 Respiratory protection

- In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear.
- Respiratory protection: Particle filter P2 or P3, colour code white.



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- Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.

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	Fine crystals and fragments
Color	White
Odor	Odorless
	Value
pH (5 % in water solution) @ (20(°C)	3.0-5.0
Freezing point/range (°C)	Not available
Boiling point/range (°C)101,3 kPa	Not available
Melting point (°C)	Not available
Flash Point (°C)closed cup	Not applicable
Ignition temperature (°C)	Not available
Viscosity cp	Not applicable
Density g/cm ³	1,98
Solubility in water g/l @ 20°C	600
Solubility in ester, ketone and hydrocarbons	Not available
Partition coefficient n-Octanol/Water (log Ko/w)	Not available
Explosive Property	Not available
Oxidation Property	The substance or mixture is classified as oxidizing with the subcategory 3.

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. Oxidizer: Contact with combustible/organic material may cause fire. Moisture sensitive.

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:

- Reducing agents, Metals, Peroxides, Strong oxidizing agents

10.6 Hazardous decomposition products:

- Oxygen
- Ammonia
- Nitrous gases

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- Sulfur oxides

10.7 Hazardous polymerization:

- None

11. TOXICOLOGICAL INFORMATION

11.1 General Information

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

11.2 Acute toxicity

Oral:

- Type of value: LD50
- Species: rat
- Value: approx. 495 mg/kg

Inhalation:

- Type of value: LC50
- Species: rat
- Value: 520 mg/kg

11.3 Skin corrosion/irritation and Eye damage/irritation:

Skin:

- No data available
- **Eye:**
 - No data available
- **Sensitization:**
 - May cause sensitization by inhalation and skin contact

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	May cause allergy on skin and respiratory tract.
Effects on Repeated Doses Chronic Exposures	May cause asthma.
Sensitization	May cause sensitization by inhalation and skin contact.
Developmental Toxicity (Teratogenicity)	No data available.
Fertility	No data available

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.

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In case of eye contact	Causes serious eye irritation.
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: SE350000

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Acute Fish Toxicity (LC50 96 hour): 323 mg/l
- Acute Fish Toxicity (LC50 96 hour): 103 mg/l
- Acute Fish Toxicity (LC50 96 hour): 76,3 mg/l
- Acute Daphnia Toxicity (EC50 48 hour): 120 mg/l
- Acute Algae Toxicity (EC50 96 hour): No data available
- 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

Fine crystals and fragments
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:	<u>No data available</u>
Abiotic:	
Hydrolysis as a function of pH:	No data available
Photolysis:	No data available
Atmospheric oxidation:	No data available

· Persistence and degradability:

Decomposition Potential of the products No data available

The half-life of degradation No data available

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

· Bioaccumulation Potential :

Biological environment (biota) accumulation potential No data available

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Potential - nutrients pass through	No data available
Reference Values - Log Kow , Sw and BCF	No data available

12.6 Additional information

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

13. DISPOSAL CONSIDERATIONS

13.1 Product / Packaging disposal

- Collection of small amounts of substance:
 - Convert into a less harmful reduction product by introducing in a sodium thiosulfate solution, if necessary under acidification.
 - Place in collecting containers for salt solutions, adjust for a pH value of 6 - 8, or place in collecting containers for toxic anorganic residues as well as heavy-metal salts and their solutions.
 - Collection vessels must be clearly labelled with a systematic description of their contents. Store the vessels in a well-ventilated location.
- 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.

14. TRANSPORT INFORMATION

UN1444 AMMONIUM PERSULFATE

	ADR ⁷ /RID ⁸	ADNR	IMDG ⁹	ICAO ¹⁰ /IATA ¹¹
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	UN1444 AMMONIUM PERSULFATE			
UN/ID No.	1044	1044	1044	1044





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SYMBOL				
CLASS	5.1	5.1	5.1	5.1
PACKAGING GROUP	III	III	III	III
LABELLING NO	5.1	5.1	5.1	5.1
CLASSIFICATION CODE	O2			
HAZARD NO (HIN NO)	50			
EmS			F-C;S-V	
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)

- May intensify fire; oxidiser.
- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.

15.2.2 RISK

- Contact with combustible material may cause fire.
- Harmful if swallowed.
- Irritating to eyes, respiratory system and skin.
- May cause sensitisation by inhalation and skin contact.

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.

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 Vedat Ateşoğlu** - vatesoglu@akkim.com.tr

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- 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 30, 2013
- Version : 1.0
- MSDS No : 193256

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):

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H315	Causes skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.

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

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- 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