

Safety Data Sheet

According To OSHA HCS (29 CFR 1910.1200)

SODIUM PERCARBONATE

Version: 1
Form No: 000001

Preparation Date : 08/09/2017
Revision Date: 08/09/2017

1. IDENTIFICATION

1.1 Product Identifier

Product Name	SODIUM PERCARBONATE
Chemical Name	<i>Sodium per carbonate</i>
CAS² No	15630-89-4
EINECS³ No	239-707-6

1.2 Relevant Identified Uses Of The Substance or Mixture And Uses Advised Against

Relevant Identified Uses	<p>It is one of the basic raw materials of the Chemical Industry with a wide range of applications. Some general examples are as follows:</p> <ul style="list-style-type: none"> · Bleaching, cleaning and stain removal agent for laundry and automatic dishwashing detergent formulations. · Stain remover agent for stain remover product formulations. · Bleaching agent for textile and paper industry applications. · Bleaching and disinfectant agent for several food and pharmaceutical industry applications · Bleaching agent for various personnel cleaning and cosmetics products · Oxidizer disinfectant for a variety of industrial cleaning 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 Çiftlikköy-Taşköprü / YALOVA- TÜRKİYE
Telephone	0 226 815 33 00
Fax	0 226 353 25 39

1.4 Information Providing Authority About Safety Data Sheet

	Halime Burcu Çelikkol
Telephone	+90 (226) 815 33 00
Fax	+90 (226) 353 25 32

E-mail	burcu.celikkol@akkim.com.tr
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1.5 Emergency Telephone Number

Company Emergency	0 226 815 33 00
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2. HAZARDS IDENTIFICATION

2.1.1 GHS Classification

- Oxidizing solids, Category 2; H272
- Acute toxicity, Category 4, oral; H302
- Serious eye damage, Category 1; H318

2.2 Label elements

Product Name

GHS Classification

· Sodium percarbonate

Hazard Pictograms



Signal Word

· DANGER

Hazard Statements

- H272** May intensify fire; oxidizer
- H302** Harmful if swallowed
- H318** Causes serious eye damage

Precautionary Statements

General

· None

Prevention

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220** Keep/Store away from clothing/combustible materials
- P280** Wear protective gloves/protective clothing/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.
- P370+P378** In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish

Storage

- P401** Store in a cool and dry place.

Disposal

None

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OSHA Defined Hazards
. None
2.3 Other Hazards
. None
2.4. Additional Information
. None

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:** Sodium percarbonate (100 %)
3.2 Mixtures : Substances in preparations / mixtures

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Sodium percarbonate	239-707-6	15630-89-4	100 %	 DANGER Oxidizing solids, Category 2; H272 Acute toxicity, Category 4, oral; H302 Serious eye damage, Category 1; H318

For full text of H Statements see section 16.

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).

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4.1.2 Following inhalation

- If breathed in, move person into fresh air.
- If not breathing give artificial respiration Consult a physician.

4.1.3 Following skin contact

- Remove contaminated clothing while protecting yourself.
- Rinse the affected skin areas for 15 minutes under running water.
- Arrange medical treatment.
- After extensive contamination:
 - Immediately use a (deluge) shower and avoid inhalation of acid mists!
 - Lay the casualty down in a quiet place and protect him against hypothermia.
 - In the meantime, call a physician to the site of the accident.

4.1.4 Following eye contact

- Following contact with liquid splashes or aerosols immediately:
- Rinse the affected eye with widely spread lids for 15 minutes under running water whilst protecting the unimpaired eye and consult a physician

4.1.5 Following ingestion

- If the casualty is conscious: have the casualty rinse his or her mouth and spit out the liquid.
- 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

- Substance has an oxidizing effect.
- The oxidizing effect is very weak though.
- Firefighting equipment must be available.

5.2 Extinguishing media:

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.3 Unsuitable extinguishing media

- None known.

5.4 Special hazards arising from the substance or mixture

- Oxidizer: Contact with combustible/organic material may cause fire. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

5.5 Advice for fire-fighters

- Wear NIOSH⁶ approved breathing apparatus, eye and face protector and chemical resistant clothes.
- Wear self-contained breathing apparatus for firefighting if necessary.

5.6 Additional information

- Keep away from open flames.

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- Observe the smoking prohibition!
- Absolutely no welding in the working area.
- Only work with vessels and lines after these have been thoroughly rinsed.
- Work done with fire or open flame should only be carried out with written permission if the risk of fire or explosion cannot be completely eliminated.
- Keep away from combustible materials.
- Filter the solutions only with glass wool, glass chips, or ceramic filters. Do not use any filtration materials made of paper which risks ignition after drying. Do not leave any cleaning rags lying in the open.
- Cool surrounding containers with water spray.
- Use water spray to cool unopened containers.
- If possible, take container out of dangerous zone.
- Do not allow runoff to get into the sewage system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment. Avoid dust formation. Avoid breathing dust. 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.
- Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal according to local regulations (see section 13)..
- Afterwards ventilate area and wash spill site.
- Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- Use protective equipment while cleaning if necessary.
- Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.
- Use a tested industrial vacuum cleaner or suction device.
- Use of a blower for cleaning is not permitted.
- 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.

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- See Section 13.

7. HANDLING AND STORAGE

7.1.1 Precautions for safe handling

7.1.2 Protective measures

Personal preventions

- Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Keep away from sources of ignition - No smoking.
- Keep away from combustible material.

Fire preventions

- 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 vapor or dust formation.
- Clean equipment and floor with a great amount of water, never dry.
- Do not raise dust while cleaning.
- Use of a blower for cleaning is not permitted.
- Only conduct maintenance and other work on or in the vessel or closed spaces after obtaining written permission.
- Only work with vessels and lines after they have been thoroughly rinsed.

7.2 Conditions for safe storage, including any incompatibilities

- 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.
- Avoid spillage.
- Fill only into labelled container.
- Avoid rising dust.

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.
- Addition of stabilizers is necessary.
- Do not refill excess materials back into the container. Avoid dangerous impurities.
- Keep container in a well-ventilated place.
- Protect from exposure to sunlight.

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- Protect from overheating/heating up.
- Protect from moisture.
- Install sufficiently large collection rooms (depressions, walls, or stable freestanding walls).

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.

7.3 Specific end use(s) See Sections: 1.2.

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. Instruction must be provided before employment and then at a minimum of once per annum thereafter.

An escape and rescue plan must be prepared when the location, scale, and use of the work-site so demand.

It must be assured that the workplace limit values are being maintained. If the limit values are exceeded, additional protection measures are necessary.

The measurements must be recorded and kept on file.



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<p><i>The number of employees who work with the hazardous substance must be kept to a minimum.</i></p> <p><i>Only employees are permitted to enter the work areas. Signposting to this effect must be displayed</i></p>	
<p>8.1.1 Occupational exposure limits</p> <p style="padding-left: 20px;"><i>Components with workplace control parameters</i></p> <ul style="list-style-type: none"> <i>· TLV (ACGIH) : 5 ppm, 7.5mg/m³ (Ceiling)</i> <i>· PEL (OSHA): 5 ppm, 7 mg/m³ (Ceiling) EV (ONTARIO): 5 ppm CEV (Ceiling)</i> <p><i>Note: NIOSH RELs/ ACGIH TLVs. OSHA PELs. Have not been established for the substances listed in Section 3.</i></p>	
<p>8.2 Exposure controls</p> <ul style="list-style-type: none"> <i>· Adequate ventilation should be used during processing</i> <i>· Risk of percutaneous absorption</i> <i>· Substances for which local irritant effects determine the exposure limit value, also respiratory allergens</i> 	
<p>8.2.1 Appropriate engineering controls:</p> <ul style="list-style-type: none"> <i>· Provide local exhaust ventilation to control dust/mist/vapors</i> <i>· In the immediate working surroundings there must be: Emergency shower installed.</i> <i>· Make available sufficient washing facilities.</i> <i>· Provide eye shower and label its location conspicuously.</i> <i>· See Section 7</i> 	
<p>8.2.2 Personal protection equipment</p>	
<p>8.2.2.1 Eye / Face protection:</p> <ul style="list-style-type: none"> <i>· Safety glasses with side shields.</i> <i>· Wear chemical safety goggles.</i> <i>· If the face is at risk a protective shield must also be worn</i> <i>· Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly.</i> 	
<p>8.2.2.2 Skin protection</p> <p><i>Hand protection</i></p>	
<ul style="list-style-type: none"> <i>· The use of resistant protective gloves is recommended.</i> <i>· 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.</i> <i>· Skin protection crèmes do not protect as effectively against the substance as protective gloves. Therefore suitable protective gloves should be preferred as far as possible.</i> <i>· Currently there is no information available regarding suitable glove materials.</i> <i>· Ask the manufacturer for suitable materials.</i> 	

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- Experience says that polychloroprene, nitrile rubber, butyl rubber, fluoro-caoutchouc, and polyvinyl chloride are suitable as glove materials for protection against undissolved solids.

Body protection

- Use protective boots while handling gas cylinders.
- Keep full protective suits made from suitable materials ready to be used in case of an accidental release.
- Protective suits have to be checked for embrittlement after each use.

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.
- At present time there is no available information about suitable filter respirator.
- A self-contained breathing apparatus can be used in any case.



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

Form/Physical state	Solid spherical granules	
Color	White.	
Odor	None	
		Value
pH @ (20°C)	10-10,8 (%l solution)	
Freezing point/range (°C)	Not available	
Melting point (°C)	Not available	
Flash Point (°C)closed cup	Not available	
Ignition temperature (°C)	Not available	
Viscosity cp	Not available	
Density	1-1,2 g/ml	
Vapor Density@ 20°C	Not available	
Solubility in water g/l @ 20°C	140 g/l at 20 °C	
Vapor pressure	Not available	
Partition coefficient n-Octanol/Water (log Ko/w)	Not available	
Evaporation rate	Not available	
Oxidizing Properties	Weak oxidizer	

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.

9.2 Other Information

None.

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

Risk of explosion in contact with:

- friction/impact;

The substance can react dangerously with:

- combustible substances
- water -> oxygen

10.4 Conditions to avoid:

- Avoid moisture. Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.

10.5 Incompatible materials:

- Strong reducing agents, Strong acids, Organic materials, Powdered metals, Salts, Heavy metals, Water.

10.6 Hazardous decomposition products:

- Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides, oxygen, heat and steam.

10.7 Hazardous polymerization:

- None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological Effects (Substances in Preparations / Mixtures)

General Information

- Acute or chronic health hazards result from the substance..

Acute toxicity

- LD50 Oral - rat - 1034 mg/kg
- LD50 Dermal - rabbit - > 2000 mg/kg - 1h

Skin corrosion/irritation and Eye damage/irritation: Skin:

Rabbit Result: Mild skin irritation.

Eye: Rabbit Result: Severe eye irritation

CMR effects (Carcinogenity) :

- 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.

CMR effects (Mutagenicity and Toxicity for reproduction) :

Reproductive toxicity:

- No data available
- Mutagenicity:
- No data available

11.2 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 concerning teratogenic effects. The chemical structure does not suggest such an effect.

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Fertility	<i>The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from products of a similar structure or composition. The chemical structure does not suggest such an effect.</i>
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11.3 STOT-single/repeated exposures:

STOT-single exposure	<i>No data available</i>
STOT-repeated exposure	<i>No data available</i>

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

In case of inhalation	<i>May be harmful if inhaled. May cause respiratory tract irritation.</i>
In case of skin contact	<i>May be harmful if absorbed through skin. May cause skin irritation.</i>
In case of eye contact	<i>Causes serious eye irritation</i>
In case of ingestion	<i>Harmful if swallowed</i>

11.5 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.*
- *Signs and Symptoms of Exposure*
- *Cough, Shortness of breath, Headache, Nausea, Vomiting, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.*
- *RTECS: FG0750000*

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- *Acute Fish Tox.(LC50 96 hour): 70,7mg/l -Pimephales promelas (fathead minnow)*
- *Acute Daphnia Toxicity (EC50 48 hour): 4,9 mg/lDaphnia magna (Water flea)*
- *Acute Algea Toxicity (EC50 48 hour): No data available*
- *Acute Crustaceans Toxicity (EC50 48hour): No data available*
- *Acute Microorganisms Toxicity (EC10 17hour): No data available*

12.2 Photo degradation

No data available.

12.3 Effects on Waste Water Treatment Plants

Not determined.

12.4 Mobility

*Solid,
Solubility in water: 140 g/l at 20 °C
Refer to eco toxicity.*

Water threat class	<i>WGK 1 - low hazard to waters</i>
Clean Water Impact	<i>No data available</i>
Known or predicted environmental distribution	<i>No data available</i>

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12.5 Results of PBT and vPvB assessment

Biotic	
Ready biodegradability:	No data available
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
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

- This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
- If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means.
- Shelf life considerations should also be applied in making decisions of this type.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- 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

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14. TRANSPORT INFORMATION

UN 3378 SODIUM CARBONATE PEROXYHYDRATE

	ADR ⁷ /RID ⁸	ADNR	IMDG ⁹	ICAO ¹⁰ /IATA ¹¹
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	SODIUM CARBONATE PEROXYHYDRATE			
UN/ID No.	3378	3378	3378	3378
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	02			
HAZARD NO (HIN NO)	50			
EmS			F-A;S-Q	
MARINE Pollutant			NO	
<i>Tunnel restrictions: Passage forbidden through tunnels of category E.</i>				
<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

15.1.1 U.S. Federal Regulations

TSCA Inventory Status

All components of this product are listed in the Toxic Substance Control Act

Chemical Substance Inventory (TSCA).

This safety datasheet complies with the requirements of Hazard Communication Standard (29 CFR 1910.1200)

15.2 US State Regulations

No data available

15.2.1 HAZARD

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

- May intensify fire; oxidizer*
- Harmful if swallowed*
- Causes serious eye damage*

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 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.S** Serhan Başer - serhan.baser@akkim.com.tr
- 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.

16.2 Related Person

- Prepared by: MSc Mehtap Pehlivan Garipoğlu (mehtap.pehlivan@akkim.com.tr)
- www.akkim.com.tr ; 02268153300

16.3 Revision Date, Version and SDS no

- Date : September 09, 2017
- Version : 1
- MSDS No : 000001

16.4 Reason of re-issue

- Compiling according to Hazard Communication Standard (29 CFR 1910.1200)

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

H272 May intensify fire; oxidizer

H302 Harmful if swallowed

H318 Causes serious eye damage

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

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⁴ CLP: Classification Labelling and Packaging

⁵ GHS: Global Harmonized 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

KONTROLLU KOPYA