

# MATERIAL SAFETY DATA SHEET

Prepared according to 91/155/EC and Safety Data Sheet Preparation Principles Bulletin (R.G. 11<sup>th</sup> March, 2002 date and 24692)

## SODIUM PERCARBONATE, COATED

**Date of Publication** : Feb., 2007 **MSDS No** : 275 - 01  
**Revision Date** : Sept 2009 **Page No** : 1/6  
**Revision Number** : 3

### 1-) Company and Product Identification

**Product Name** : Sodium Percarbonate  
**Chemical Formulation** :  $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$   
**Cas No** : 15630-89-4  
**EINECS No** : 239-707-6  
**Field of Application** : Laundry and automatic dishwashing detergents, industrial cleaning products, stainsalts.  
**Producer** : Ak-Kim Kimya Sanayi ve Tic. A.Ş.  
Süleyman Seba Cad. Acısu Sok. Taşlık Apt. No: 13  
34357 Maçka – İstanbul / TÜRKİYE  
([www.akkim.com.tr](http://www.akkim.com.tr))  
**Address** : Süleyman Seba Cad. Acısu Sok. Taşlık Apt. No: 13  
34357 Maçka – İstanbul / TÜRKİYE,  
([www.akkim.com.tr](http://www.akkim.com.tr))  
**Telephone** : +90 (226) 815 33 00  
**Fax** : +90 (226) 353 25 39  
**Emergency Phone Number** : +90 (226) 353 25 33 **Fax:** +90 (226) 353 25 39

### 2-) Composition/ Information on Ingredients

<b>Chemical Name</b>	: Sodium Percarbonate			
<b>Synonyms</b>	: Sodium Carbonate Peroxyhydrate			
<b>Chemical</b>	<b>Cas No</b>	<b>Percentage</b>	<b>Hazard</b>	<b>Risk Phrases</b>
Sodium Percarbonate	15630-89-4	100	O : Oxidant Xi : Irritant	R- 8, R-36/38 (See part 6 and 15)

### 3-) Hazards Identification

**Major hazards** : Irritating to mucous membranes, eyes and skin.  
Risk of severe eye lesions.  
Accelerates combustion of other substances  
(Oxidizing product)

**Specific hazards** : Severe eye irritation, watering, redness; causes burns to eyes.

### 4-) First-Aid Measures

**If Inhaled** : Remove the patient exposed to fresh air. If breathing becomes difficult call a physician.

**In the case of skin contact** : Flush with water for fifteen minutes at least, remove contaminated clothes and shoes.

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<b>In the case of eye contact</b>	: Rinse immediately with plenty of water at least for fifteen minutes while keeping eyelids open. Contact with doctor in all cases. Product can cause serious eye irritation and lesions.
<b>If swallowed</b>	: Wash out mouth with water provided the person is conscious. Do not induce vomiting. Seek medical support.

### 5-) Fire-Fighting Measures

<b>Suitable Extinguishing Media</b>	: Water, water spray, dry chemical powder, appropriate foam, Carbon dioxide
<b>Extinguishing Media Which Must Not Be Used For Safety Reasons</b>	: All available sources of extinguishing material can be used.
<b>Specific Hazards</b>	: Product is not flammable. But it accelerates fire by forming Oxygen via exothermic decomposition reaction under fire conditions (Oxidizer). Close containers contact with fire may explode.
<b>Dangerous Decomposition/Combustion Products</b>	: Emits toxic fumes during combustion.
<b>Specific Methods</b>	: Evacuate all non-essential personnel. If possible remove the exposed container or try to keep under water mist.
<b>Special Protective Equipment For Fire Fighters</b>	: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6-) Accidental Release Measures

<b>Personel Measures</b>	: Use protective equipments to avoid contact with eyes, and skin. Do not work without eye protection. Avoid dust formation and use dust mask.
<b>Environmental Precautions</b>	: Immediately notify authorities in case of spill.
<b>Cleanup Methods</b>	: Collect the product with suitable means. Clean area with large quantities of water. Do not return contaminated product to its original container.

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### 7-) Handling and Storage

<b>Handling</b>	: Avoid contact with water, humidity, heat, sunlight temperature. Keep away from incompatible materials. Clean and dry containers and piping before contact with the product.
<b>Storage</b>	: Store in an area away from acids, bases, metals, reducing agents, organics, and flammable substances. Never return unused product to its container. Store in a dry area. Protect from direct sunlight. Keep away from heat sources. Store at cool places. Storage temperature should be less than 40°C. Keep away from reactive products.
<b>Technical Measures</b>	: Follow the measures given at section 8
<b>Packaging Material</b>	: Stainless steel, paper and PE, glass, passivated Aluminium
<b>Other Measures</b>	: -

### 8-) Exposure Control / Personal Protection

<b>Exposure Limit Values</b>	: TLV ACGIH, 10mg/m <sup>3</sup> inhalable TLV ACGIH, 3mg/m <sup>3</sup> respirable TWA : 5mg/m <sup>3</sup>
<b>Exposure Controls</b>	: Avoid inhalation of dust and contact with eyes and skin
<b>Occupational Exposure Controls</b>	
— <b>Respiratory Protection</b>	: Ventilate working areas to supply condition under exposure limits. Use dust respirator.
— <b>Hand Protection</b>	: Protective gloves made of PVC, rubber, neoprene.
— <b>Eye protection</b>	: Use protective goggles. Keep emergency eye showers in working areas
— <b>Skin protection</b>	: Use suitable working clothes.
<b>Environmental Exposure Controls</b>	: Wastes should be treated according to domestic authority laws.

### 9-) Physical and Chemical Properties

#### General Information

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**Appearance** : White spherical granules.

**Odor** : Odorless

### Important Health, Safety and Environmental Information

**pH** : 10-10,8 (%1 solution)

**Boiling Point** : Not applicable

**Flash Point** : Non-flammable

**Flammability** : Non-flammable

**Explosive Properties** : See section 5

**Oxidizing Properties** : Weak oxidizer.

**Vapor Pressure** : Not applicable

**Bulk Density** : 1-1,2 g/ml

**Solubility** : 140 g/l (20°C)

**Freezing Point** : Not applicable

**Molecular Weight** : 314.02 g/mol

## 10-) Stability and Reactivity

**Stability** : Stable under certain conditions of use.

**Reactivity** : Reactive with the substances mentioned at section 7

**Conditions to Avoid** : Heat, moisture, sunlight.

**Materials to Avoid** : Water, acids, bases, salts of heavy metals, organic materials, reducing agents, flammable substances.

### Hazardous

**Decomposition Products** : Oxygen. Heat and steam is released during decomposition.

## 11-) Toxicological Information

### Acute Toxicity

**Oral** : LD50, rat, 1034mg/kg

**Inhalation** : LC0, rat, >4,58 mg/l

**Skin Contact** : LD50, rabbit, >2000mg/kg

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**Eye contact** : Severe burns.

**Chronical toxicity** : No data

**Carcinogenic** : None

**Designation**

### 12-) Ecological Information

**Ecotoxicity** : LC50 > 1000 ppm (Fat Head Minnows)  
LC50 > 1000 ppm (Daphnia Manga)  
Degradation products are Sodium Carbonate, Hydrogen Peroxide, Carbonate and Bicarbonate.  
Toxic for aquatic organism. Hazard for the environment is limited due to non-bioaccumable, low toxicity of degradation products and abiotic degradation properties.

### 13-) Disposal Considerations

**Disposal** : Collect spilled material. Never return contaminated product to its original container. Wash remainder material with plenty of water. Comply with state and local regulations.

### 14-) Transport Information

**EINECS/ELINCS NO** 239-707-6  
**Highway trasport**  
ADR class: 5.1 ADR code: 5c  
RID class: 3 RID code: 5c  
TREM-Card :CEFIC TEC(R)- 51GO2-I+II+III UN NO: 3378  
UN NO: 3378  
Shipping Name: Oxidizing solid (Sodium Carbonate Peroxyhydrate)

**Seaway Transport**  
UN NO: 3378 Class: 5.1  
Packing group :III Marine pollutant: No  
EMS: 5.111 MFAG: BRG 140  
IMO/IMDG code:5.1-11

### 15-) Regulatory Information

**Chemical Identity** : Sodium Percarbonate  
**Symbol** :  $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$

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### Labeling



### Symbols

: Xi

O

### R- phrases

**R-8** : Contact with flammable substance may cause fire.

**R-36/38** : Irritating to eyes and skin.

### S phrases

**S-3** : Keep in a cool place.

**S-8** : Keep the container dry.

**S-17** : Keep away from combustible substances.

**S-24/25** : Avoid contact with eyes and skin.

**S-26** : In case of contact with eyes, rinse immediately with plenty of water.

### Additional Information

: -

## 16-) Other Information

### Legislation

: --

### Warning

: CONTACT WITH EYES CAUSES SEVERE IRRITATION.

### Short history

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### First Publication Date

: February, 2007

### Previous Publication Date

: New

### Version

: 2

### Written By

Hydrogen Peroxide and Sodium Percarbonate Plant Management

AKKİM KİMYA SANAYİ ve TİCARET A.S., February 2009

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