

Safety Data Sheet

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

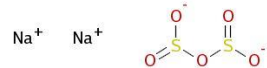
SODIUM METABISULFITE (FOOD GRADE)- E223

Version: 3.0
Form No: 193223

Preparation Date : 12/7/2018
Revision Date: 12/7/2018

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

1.1 Product Identifier

Product Name	SODIUM METABISULFITE (FOOD GRADE)- E223
SDS¹ No	193223
CAS² No	7681-57-4
EINECS³ No	231-673-0
Chemical Name	Sodium metabisulfite
Chemical Formula	Na ₂ S ₂ O ₅
Structural Formula	

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	<ul style="list-style-type: none"> - Antichlore in bleaching in textile industry - Antiseptic in production of cellulose esters - Main raw material in production of sodium hydrosulfite, aromatic alcohols and aldehyde - Preservative and disinfectant in food and beverage industries as a source of sulfur dioxide - Antiseptic in fermentation process - Color removing in paint and leather industries - Disinfectant in cosmetic and canned industry - Various applications in paper, fiber, rubber and adhesive industries
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

- Acute toxicity, Category 4, oral; H302
- Serious eye damage, Category 1; H318

2.2 Label elements

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

Product Identifier

Hazard Component for Labeling

- Sodium metabisulfite

Hazard Pictograms



Signal Word

- Danger

Hazard Statements

H302 Harmful if swallowed

H318 Causes serious eye damage

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.

P318 Get medical advice/attention

Storage

- None

Disposal

- None

Supplemental Hazard Information (EU) Statements

EUH031 Contact with acids liberates toxic gas.

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

May be harmful if absorbed through skin. May cause skin irritation

2.3.2. Eye Contact

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Causes eye burns.

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

Repeated oral uptake of the substance did not cause substance-related effects.
Repeated inhalative uptake of the substance did not cause substance-related effects.
The product has not been tested. The statement has been derived from products of a similar structure or composition.

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: Sodium Sulfit (≥ 97,5%)

NAME	EINECS NO	CAS NO.	CONTENT (%)	CLASSIFICATION
				CLP
Sodium metabisulphite	231-673-0	7681-57-4	>= 98,00 %	 DANGER Acute toxicity, Category 4, oral; H302 Serious eye damage, Category 1; H318

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.
- If signs of difficulty in breathing or irritation appear
- As soon as possible repeatedly have the casualty deeply breath a glucocorticoid inhalation spray in.
- Arrange medical treatment.

4.1.3 Following skin contact

- Remove contaminated clothing while protecting yourself.
- Immediately cleanse the affected skin areas with soap under running water.
- Arrange medical treatment.

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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.
- Arrange medical treatment.

4.1.5 Following ingestion

- Rinse the mouth and spit the fluids out.
- If the casualty is conscious have him drink copious amounts of liquids (water).
- Do not make the casualty vomit.
- Arrange medical treatment.
- During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid penetration of the vomit into the air tube.

4.1.6 Self-protection of the first aider

- Pay attention to self-protection

4.1.7 Notes for the doctor

- Following contact with sodium metabisulfite acute hypersensitivity reactions are to be considered to be the most significant risk for persons with sensitivity to sulfites.
- In general only irritation to the eyes, upper airways and other mucous membranes contacted are expected; systemic effects seem to be minor.
- The following information on first aid also takes the data available for sodium bisulfite into consideration.
- - Symptoms of acute poisoning:
- Eyes: irritation to the conjunctives, possible opacity of the cornea, in single cases hypersensitivity reactions (see below)
- Skin: following short-term contact generally weak/absent irritation, seldom allergic skin reactions (dermatitis, eczema)
- Inhalation: concentration dependent irritation predominantly in the upper respiratory tract, also bronchoconstriction, in extreme cases lung damage not to be excluded; for persons with sensitivity to sulfites: mostly within some minutes up to 1 h bronchospasm, asthma attacks, more seldom urticaria, swelling of the nasal mucosa, angioedema, glottis edema, gastrointestinal symptoms, hypotension, shock
- Ingestion: following intake of high doses irritation to the mucous membranes and gastrointestinal complaints (nausea, vomiting); also possible systemic effects; for persons with sensitivity to sulfites immediate reactions, as described for inhalation, even after mg doses
- Absorption: no valid data on toxic effects available;
- possible neural disturbances (indications from animal experiments).
- - Medical advice:
- Thoroughly rinse contaminated eyes even if only minor irritation is felt. Check/further treatment by an ophthalmologist is recommended.
- Carefully cleanse contaminated skin. Further treatment probably is hardly necessary. For irritation a dermatocorticoid should be applied.
- If signs of irritation or bronchoconstriction appear after inhalation, application of glucocorticoids (inhalatively/intravenously) and oxygen is required. Check functions of the heart/circulatory system.
- For bronchospasm apply bronchodilators.
- Intubation, artificial ventilation and possibly also early tracheotomy can be required for

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respiratory insufficiency/glottic edema. These are to be expected if there is a sensitivity against sulfites.

- *Further treatment should be done symptomatically.*
- *Following ingestion have the casualty drink water.*
- *Do not provoke vomiting, do not apply charcoal.*
- *Following ingestion of higher doses, consideration can be given (based on all findings) to drawing off stomachal content via a soft, flexible tube.*
- *For hypersensitivity reactions (respiratory insufficiency/asthma, anaphylactoid reactions) apply analogous measures as for inhalation (see above).*
- *Following oral poisoning, massive inhalation or for hypersensitivity reactions protect the vital functions and arrange hospitalization as soon as possible*

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:

- *Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.*
- *Dry powder*

5.3 Unsuitable extinguishing media

- *None known.*

5.4 Special hazards arising from the product

- *No data available*

5.5 Advice for fire-fighters

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

5.6 Additional information

- *Based on the chemical structure there is no shock-sensitivity.*
- *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

- *Avoid inhalation of dusts or particulates.*
- *Avoid dust formation. Ensure adequate ventilation*
- *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

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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

- 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.
- 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.

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

- Avoid dust formation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- 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:

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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

- Keep in a cool place. Keep container dry.
- Keep container in a well-ventilated place
- Store in original containers.
- Check all containers are clearly labelled and free from leaks.
- Keep containers securely sealed when not in use
- Avoid contact with incompatible materials
- Avoid physical damage to containers.

STORAGE INCOMPATIBILITY

- Segregate from acids and acid forming substances.
- Segregate from oxidants

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 10 - 13 (Other liquids and solids)
- 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.
 - Strongly oxidizing substances of storage class 5.1A.
- Under certain conditions the collocated storage with the following sub-stances is permitted (For more details see TRGS 510):
 - Gases.
 - Flammable liquids of storage class 3.
 - Other explosive substances of storage class 4.1A.
 - Spontaneously flammable substances.
 - Substances liberating flammable gases in contact with water.
 - Oxidizing substances of storage class 5.1B.
 - Ammonium nitrate and preparations containing ammonium nitrate.
 - Organic peroxides and self reactive substances.
 - Combustible and non combustible acutely toxic substances of storage classes 6.1A and 6.1B.
- The substance should not be stored with substances with which hazardous chemical reactions are possible.

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- It should be stored in a dry and closed area avoiding contact with air. In damp places due to the SO₂ decomposition it loses its activity. Air contact must be prevented. Do not use in covered unaerated rooms
- Observe the national and local regulations concerning handling and storage.

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 : 5 mg/m³ (Denmark)
- STEL : 10 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 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:

- Safety glasses with side shields.
- Chemical goggles.
- 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.



8.2.2.2 Skin protection

Hand protection

- The use of resistant protective gloves is recommended.
- Skin protection cremes do not protect as effectively against the substance as protective gloves. Therefore suitable protective gloves should be preferred as far as possible.
- The following information is valid for aqueous, saturated solutions of the salt.



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- The following materials are suitable for protective gloves (Permeation time \geq 8 hours):
 - 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)
- Protective gloves of the following materials should not be worn longer than 4 hours continually (Permeation time \geq 4 hours):
 - Polyvinyl chloride - PVC (0,5 mm)
- Protective gloves of the following materials should not be worn longer than 2 hours continually (Permeation time \geq 2 hours):
 - Natural rubber/Natural latex - NR (0,5 mm) (use non-powdered and allergen free products)
- 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.

Body protection

- Depending on the risk, wear a tight, long apron and boots or suitable chemical protection clothing
- Eye wash unit.

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.
- Perhaps also necessary for improved protection:
- Respiratory protection: Combination filter E - P2 or E - P3, colour code yellow-white.
- (also possible combination filter B - P2)
- 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	Powder, Crystalline
Color	White or pale yellow clear,
Odor	Odourless

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	Value
pH (5 % in water solution) @ (20°C)	4,0 – 4,8
Freezing point/range (°C)	Not available
Boiling point/range (°C)101,3 kPa	Not available
Melting point (°C)	>300
Flash Point (°C)closed cup	Not available
Ignition temperature (°C)	Not available
Viscosity cp	Not applicable
Density kg/l	1.40-1.48
Solubility in water g/l @ 20°C	650
Solubility in ester, ketone and hydrocarbons	Not available
Partition coefficient n-Octanol/Water (log Po/w)	-3,7 (25 °C) (OECD Guideline 107)
Explosive Property	None
Oxidation Property	None

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

- The product decomposes while releases SO₂ in ambient temperature and atmospheric pressure
- Contact with acids liberates toxic gas.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

- The substance can react dangerously with:
- oxidizing agents
- acids -> sulphur dioxide

10.4 Conditions to avoid:

- Avoid moisture. avoid atmospheric oxygen

10.5 Incompatible materials:

- Acids, oxidizing agents, nitrites, nitrates

10.6 Hazardous decomposition products:

- sulphur dioxide;
- sodium oxide;
- Thermal decomposition: 150 °C

10.7 Hazardous polymerization:

- None.

11. TOXICOLOGICAL INFORMATION

11.1 General Information

- Routes of exposure:
- - During occupational handling of sodium metabisulfite (S.) exposure is to be expected via the inhalative and dermal intake pathways.

11.2 Acute toxicity

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Oral:

- Type of value: LD50
- Species: rat
- Value: approx. 1,130 mg/kg

Dermal:

- Type of value: LD50
- Species: rat (male/female)
- Value: > 2,000 mg/kg.

11.3 Skin corrosion/irritation and Eye damage/irritation:

Skin:

- no data available

Eye:

- Eyes - rabbit - Risk of serious damage to eyes. - OECD Test Guideline 405

Sensitization:

- Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals..

11.4 CMR effects (Carcinogenity) :

- IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium metabisulphite).

11.5 CMR effects (Mutagenicity and Toxicity for reproduction) :

- The substance was not mutagenic in bacteria. The substance was not mutagenic in a test with mammals.

11.6 Other Toxicological Effects:

Allergic Effects	May cause allergic reactions depends on sensitization
Effects on Repeated Doses Chronic Exposures	Repeated inhalative uptake of the substance did not cause substance-related effects. The product has not been tested. The statement has been derived from products of a similar structure or composition
Sensitization	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Developmental Toxicity (Teratogenicity)	No data available concerning teratogenic effects. The chemical structure does not suggest such an effect.
Fertility	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.

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	May be harmful if absorbed through skin. May cause skin irritation
In case of eye contact	Causes eye burns
In case of ingestion	Harmful if swallowed

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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: UX8225000

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Acute Fish Toxicity (LC50 96 hour): 150-250 mg/l (Rainbow trout)
- Acute Daphnia Toxicity (EC50 24 hour): 89 mg/l (Daphnia magna)
- Acute Algae Toxicity (IC50 72 hour): 48 mg/l (green algae)
- Acute Microorganisms Toxicity (EC50 72hour): No data available
- Acute Microorganisms Toxicity (EC10 17hour): 56 mg/l (Pseudomonas putida)

12.2 Photo degradation

No data available.

12.3 Effects on Waste Water Treatment Plants

Not determined.

12.4 Mobility

Solid powder

Solubility in water: 650 g/l @ 20°C

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
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 Log Po/w: -3,7 (25 °C) (OECD Guideline 107)

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12.6 Additional information

- Harmful to aquatic life
- 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

13.4 European Waste Catalogue

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

14. TRANSPORT INFORMATION

	ADR ⁷ /RID ⁸	ADNR	IMDG ⁹	ICAO ¹⁰ /IATA ¹¹
TRANSPORTATION	Road	River	Marine	Airways
PROPER SHIPPING NAME	Not classified as a dangerous good under transport regulations			
UN/ID No.	-	-	-	-
SYMBOL	-	-	-	-
CLASS	-	-	-	-
PACKAGING GROUP	-	-	-	-
LABELLING NO	-	-	-	-
CLASSIFICATION CODE	-	-	-	-
HAZARD NO (HIN NO)	-	-	-	-
EmS	-	-	-	-
MARINE Pollutant	-	-	NO	-

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Road Transport Notes: This product is not 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)

- Harmful if swallowed
- Causes serious eye damage

15.2.2 RISK

- 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 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
- 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

- Prepared by : Mehmet Barış NAİM (baris.naim@doruksistem.com.tr)
Competent Person Accreditation no : TURKAK/NBC 01.126.02 08.05.2017

16.3 Revision Date, Version and SDS no

- Date : December 7, 2018
- Version : 3.0
- MSDS No : 193223

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):

H302	Harmful if swallowed
H318	Causes serious eye damage
EUH031	Contact with acids liberates toxic gas.

Safety Data Sheet

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

SODIUM METABISULFITE (FOOD GRADE)- E223

Version: 3.0
Form No: 193223

Preparation Date : 12/7/2018
Revision Date: 12/7/2018

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

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