

THE SDS PREPARED ACCORDING TO REGULATION ON THE SAFETY DATA SHEETS RALATING TO HAZARDOUS SUBSTANCES AND MIXTURES (13.12.2014 / 29204)

PRODUCT NAME: OIL REMOVER

Release Date :05.07.2010 Revision Date :10.01.2023

FORM NO: MS.22 Revision No :03
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# 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY /UNDERTAKING

#### 1.1. Identification of the substance / Mixture

Product Description: OIL REMOVER

Product Code: 22

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

Oil dissolver, suitable for use in industrial and domestic kitchens, is a heavy oil remover product.

# 1.3. Details of the supplier of the Safety Data Sheet

Manufacturer Company: GÖKOĞLU KİMYA GID. REK. İNŞ. KOZ. SAN. VE TİC. LTD. ŞTİ.

Address: Astim Org. San. Böl. Astim Bul. No: 7 AYDIN

Phone: 0256 231 07 30/231 07 31

Authorized person responsible for SDS: <a href="mailto:nurhandogan83@gmail.com">nurhandogan83@gmail.com</a>

# **1.3.1. Details of the Exporter/Trademark** BSP ULUSLARARASI TİC. DAN. LTD. ŞTİ.

TRADEMARK NUMBER: 18806803

BİORG&FRESH

Mansuroğlu Mah. Ankara Cad. K.4 N:11 Bayraklı /İzmir/ Türkiye

+90 232 503 85 88

www.biorgfresh.com info@biorgfresh.com

# 1.4. Emergency telephone numbers:

Ministry of Health UZEM phone number: In case of poisoning, call the 114 number of the National Poison Information Center (UZEM) or the 112 number of the emergency health services.

Emergency telephone numbers: 0256 231 07 30

# 2. HAZARD IDENTIFICATON

#### 2.1. Classification of the Substance or Mixture

Classification of Substances or Mixtures according to the regulation on SEA (OJ 11.12.2013 No.28848 reiterated)

# Physical and chemical hazards:

Not relevant

**Health Hazards:** 

Skin Corr. Cat. 1A; H314 Environmental Hazards:

Not relevant.

2.2.Label Elements

**Hazard Pictograms:** 



**GHS05** 

Signal word: DANGER

# **Hazard Statements:**

Physical Hazards	Health Hazards	Environmental Hazards
Not relevant	H314: Causes severe skin burns and eye	Not relevant
	damage	

#### **Additional Hazard Statements:**

Not relevant.



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# **Precautionary Statements:**

D .:	D2 (0 D
Prevention	P260: Do not breathe dust/fume/gas/mist/vapours/ spray.
	P264: Wash thoroughly with plenty of water after handling.
	P280: Wear protective gloves/protective clothing/eye protection/face protection
Response	P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water [or shower].
	P363 – Wash contaminated clothing before reuse.
	P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	P310 – Immediately call the NATIONAL POISON ADVICE CENTER PHONE 114
	or the doctor.
	P321: Specific treatment (see this label).
	P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several
	minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Storage	P404: Store locked up
Disposal	P501: Dispose of container in accordance with national regulations.

#### 2.3. Other Hazards

No data.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Substances	Concentration %(w/w)	CAS No	EINCES NO	Classification SEA(CPL)
Sodium hydroxide	%5-10	1310-73-2	215-185-5	Skin Corr.1B;H314
Deionized water	>%90	7732-18-5	-	Not dangerous

# 4. FIRST AID MEASURES

As a general rule, consult a doctor when an unexpected situation is encountered or symptoms persist. Never try to make an unconscious person vomit.

#### 4.1. Description of First Aid Measures

# 4.1.1.Inhalation:

Remove the patient to fresh air. Keep calm and warm. If breathing is difficult, artificial respiration should be done and a doctor should be consulted immediately.

#### **4.1.2.** Eye Contact:

If you have contact lenses, check and remove. In case of contact with eyes, wash with plenty of water by occasionally lifting the upper and lower lids at least 20 minutes and consult a doctor.

# 4.1.3. Skin Contact:

In case of contact with skin, wash with plenty of water for at least 15 minutes. Take off your contaminated clothes. In case of irritation, consult a doctor.

# 4.1.4. Ingestion:

Do not vomit. Never give anything by mouth in case of fainting. Check breathing and heart rate. If not breathing, give artificial respiration by trained personnel.

If there is no heartbeat, perform heart massage by trained personnel. See doctor immediately.

# 4.2. Most important symptoms and effects, both acute and delayed

#### 4.2.1. Inhalation







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May cause coughing, difficulty breathing, respiratory tract irritation.

#### 4.2.2. Skin Contact

May cause burns. Serious skin damage may occur with blistering and wounding.

#### 4.2.3. Eye Contact

It can cause serious damage and burns. It can produce chronic consequences.

#### 4.2.4. Ingestion

May cause adverse effects on health. It can cause nausea, vomiting, coma or death.

# 4.2.5. Long-Term Effects

Permanent irritation of the eyes, nose and throat may occur due to prolonged exposure.



Be psychologically supportive and act on the findings.



# 5. FIREFIGHTING MEASURES

# 5.1. Suitable extinguishing media

Use foam, dry chemicals, water mist, carbon dioxide fire extinguishers. After fire is out, cool containers with water. In large fires, the fire department should be notified. Care should always be taken to create an escape route in case of fires.

# 5.2. Special hazards arising from the substance or mixture

Do not let it mix with any chemicals. The fire should not be intervened with strong water, it may cause the fire to spread. It is not flammable.

#### 5.3. Advise for firefighters

Use full-face self-contained breathing apparatus and suitable protective clothing when fighting a fire. Firefighters should avoid breathing any combustion products. If possible, avoid using water. It releases heat and smoke as a result of exothermic reaction with acids. If there is pressure in the containers, they can explode when heated or with acid gases. Avoid contact with skin.

# **6. ACCIDENTAL RELEASE MEASURES** (Avoid contact with skin and eyes.)

# 6.1. Personal precautions, protective equipment and emergency procedures

# **6.1.1** For Non – Emergency Personnel

Wear adequate protective clothing. Avoid substance contact. Do not breathe vapours. Provide fresh air indoors. Consult an expert for emergency procedures. Avoid contact with skin and eyes.

#### **6.1.2** For Emergency Responders

Use personal protective clothing, gloves and face and eye protection equipment specified in section 8. Evacuate the danger area and prevent unnecessary and unprotected persons from entering the area. Get personnel to safe area. Avoid contact with skin and eyes.

#### **6.2. Environmental Precautions**

Prevent from mixing with channels, surface and underground waters. Inform the competent authorities if it enters waters or sewers. Prohibit entry to the area until cleaning is complete. Extinguish any fire or remove all sources of ignition and ventilate the area.

# 6.3. Methods and material for containment and cleaning up

Wash small spills with plenty of water. Absorb large amounts of spillage in liquid-retaining inert material (dry sand or earth) and place in chemical waste containers. Dispose according to regional/national regulations. Provide ventilation. Do not use flammable materials such as sawdust, lint, paper.

#### 6.4. References to other sections

See Section 13

# 7. HANDLING AND STORAGE



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# 7.1. Precautions for safe handling

Observe the warnings and industrial safety precautions on the label. If mixed with water, it may cause an increase in temperature. In contact with acids, it gives an exothermic reaction, releasing heat and smoke. It should be kept away from oxidizing agents and acids. Wear full-body protective clothing against splashes and spills. Use protective clothing when there is a risk of exposure Wash your hands with plenty of soap and water after work. Avoid hand and eye contact and inhalation of vapors.

# 7.1.1. General Recommendations for Handling

Keep away from acids. Wear chemical safety glasses. Wear rubber or PVC gloves and protective clothing. Make sure there is good ventilation. Avoid direct contact of the substance with skin and eyes during manual handling. Keep fire fighting equipment ready.

# 7.1.2. Warnings Regarding Incompatibilities of Substances or Mixtures

Avoid storing in the same environment with acidic materials. Do not use paper and cotton products.

#### 7.1.3. Environmental Recommendations

Prevent from entering sewers and water sources. In case of interference, notify the competent authorities.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Do not open packages that have built up pressure. Store in a cool, dry and well-ventilated place away from incompatible materials (containing acids). Protect from heat and direct sunlight in well-closed containers. The floor should not be permeable to the product and it should be ensured that the product is collected in a certain place with the duct system in case of accidental spillage. The warehouse should be away from animal feeding areas. The product reacts with acids, nickel copper, tin, manganese and iron.

#### 7.3. Specific end use(s)

No information

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control Parameters

# ${\bf Exposure\,limits/standards}$

TLV-Ceiling: 2 mg/m3

STEL (10 min): 2 mg/m3 (UK)

PEL: 2 mg/m3

Provide ventilation where appropriate. Provide safety showers in case of skin and eye contact.

#### 8.2. Exposion Controls

# **8.2.1.** Appropriate Engineering Controls

No informtaion.

#### **8.2.2.** Individual protection measures

# General protection and hygiene measures

Do not eat, drink or smoke where the material is handled. Keep away from foodstuffs, drinks and feedstuffs. Take off your contaminated clothing. Avoid contact with eyes and skin. Safety showers and eye wash must be ready for use.

#### **8.2.2.1.** Eye-Face Protection:

Use suitable safety glasses and/or full face shield when splashing is possible. For example according to EN 166. Provide eyewash and emergency shower facilities in the work area.

# 8.2.2.2. Hand-Skin Protection:

Wear suitable gloves, boots, apron, chemical protective clothing or work clothes to prevent skin contact.

# **8.2.2.3.** Respiratory Protection





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If the specified standards are exceeded, use a respirator in accordance with OSHA General Industry Standards. If vapors are present, use a full face shielded respirator. After leaving

the working environment, you can stay in the fresh air. 8.2.3. Environmental exposure controls

No information.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

: Liquid a) Appearance

b)Odor : Characteristic c)Odor Threshold : Not applicable

: 12-14 d)pH :>0°C e) Melting / Freezing Point

f) Starting Boiling Point / Boiling Range : No information g) Flash Point : No information h) Evaporation Rate : No information i) Flammability : No information j) Upper/lower flammability or explosive limits : No information k) Vapor Pressure : No information 1) Vapor Density : No information m)Relative Density : No information

n)Solubility : It is completely soluble in water.

o) Partition coefficient:n-octanol water : No information p) Flaming Temperature : No information q) Decompositon Tmperature : No information r) Mobility : No information s) Explosive Property : No information t) Oxidazing Property : No information

9.2. Other information

No information

# 10. STABILITY AND REACTIVITY

# 10.1. Reactivity

It is stable under normal conditions

# 10.2. Chemical Stability

Not stable at temperatures above 40°C, in daylight and in contact with acids.

#### 10.3. Possibility of hazardous reactions

Significant heat is released when mixed with acid. Water, acids (hydrochloric acid, sulfuric acid, nitric acid, hydrofluoric acid, phosphoric acid, acetic acid, formic acid, benzoic acid, muriatic acid etc.) react. If the product is exposed to very high temperatures, it may emit carbon monoxide, dioxide, smoke and nitrous oxide gases.

# 10.4. Conditions to avoid

Heat, temperature, pressure, humidity and substances to be avoided.

#### 10.5. Materials to avoid

Oxidizing and reducing agents, strong acids (hydrochloric, hydrofluoric, muriatic, phosphoric acid, chromic acid, nitric acid, sulfuric acid, etc.), combustible materials, halogens, metals, alkalis, peroxides, nickel, copper, tin, aluminum, etc.

# 10.6. Hazardous decomposition products



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As a result of its decomposition with some metals, toxic gases are released.

# 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

#### 11.1.1.Substances

# **Toxic Limit**

LD50/oral/rabbit= 40 mg/kg guinea pig orally (sodium hydroxide)

LC50/respiration/8h/rat= Not listed

LD50/dermal/rat= Not listed

### **11.1.2. Mixtures**

# 11.1.2.1

	Conclusion and thoughts	
Acute toxic	Harmful if swallowed.	
Irritation	May cause respiratory tract irritation.	
Corrosive	Causes severe skin burns.	
	Causes serious eye damage. Causes burns.	
Sensitivity	No information.	
Repeated dose toxicity	No information.	
Carcinogenicity	According to the international cancer research agency, this	
	product does not contain carcinogenic substances.	
Mutajenite	There is no information about the content of the substance	
	causing mutagenic adverse effects.	
Reproductive toxicity	There is no evidence of fertility and developmental effects.	
Aspiration	No information.	

#### 11.2 Hazard Classification

Skin corrosion / iritation

#### 11.3 Hazard information as the substance is placed on the market

Skin Corrosive Category 1A;H314

#### 11.4 Information About Test Data

No information

#### 11.5 Additional Information on Classification Criteria

No information.

#### 11.6 Information on Possible Routes of Exposure

	Solid Houses of Linguistic	
If swallowed	It can cause sudden burning and pain in the mouth, throat,	
	esophagus, digestive system and stomach.	
Skin Contact	It causes the natural oil of the skin to be removed and accordingly it	
	causes severe burns.	
Eye Contact	Causes serious eye damage.	
If inhaled	It causes irritations in the nose, throat, trachea and bronchi.	
	Prolonged and excessive exposure to its vapors and mixtures causes	
	liver dysfunction and pulmonary edema.	
Target organs	Eye, skin, respiratory system	
Medical Warnings	In case of contact with eyes and skin, rinse with plenty of clean	
_	water. If swallowed, do not induce vomiting. If inhaled, get fresh air	
	and treat as directed.	

# 11.7 Information on Physical, Chemical and Toxicological Properties

The chemical, physical and toxicological properties have not been fully studied.



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# 11.8 Delayed or Immediate Effects as well as Chronic Effects in Short- and Long-Term Exposure

No information.

#### 11.9 Interactive Effects

The interaction effects of each substance in the product with each other have not been fully studied.

# 11.10 Absence of Specific Data

No specific data is available.

# 11.11 Mixture and Substance Comparison Information

No information.

#### 11.12 Other information

No information.

#### 11.13 Additional Toxicological Warnings:

Toxicological classification was made based on content information and available information.

#### 12. ECOLOGICAL INFORMATION

#### 12.1.Toxicity

Sodium Hydroxide [CAS# 1310-73-2]:

Acute Fish Toxicity (LC50 96 Hours): 196 mg/l Acute Daphnia Toxicity (EC50 48Hr): 40.38 mg/l

Acute Algae Toxicity (IC50 72 Hours): No Information

Acute Crustacean Toxicity (EC50 48 Hours): 40.4 mg/l

Ecotoxicity data have not been specifically determined for the assessment of the environmental hazard of this product. The information given in this section belongs to the information on the components and the ecotoxicity of similar substances.

# 12.2.Persistance and degradability

This material is alkaline and can raise the pH of surface waters with low buffering capacity. Therefore, it should not be directed to the waste treatment plant without being neutralized. (Neutralization should be carried out outdoors, carefully and taking the precautions specified in section 8)

#### 12.3.Bioaccumulative potential

No information.

# 12.4. Mobility in soil

-			П
	Solubility in Water	The product is well soluble/miscible in water.	
	Surface Tension	No information	
	Water Threat Class	No information about its mobility in the soil and its water threat class.	
	Effect on Drinking	No information about its mobility in soil and its effect on drinking	
	Water	water.	

# 12.5. Results of PBT and vPvB assessment

No information.

#### 12.6.Other adverse effects

No information.

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

It should not be disposed of with household waste. Do not discharge into drains and water channels. According to the legislation, it should be stored in the appropriate area and within the time period.

# 13.2 Disposal methods

It must be disposed of in accordance with the legislation. Deliver to professional licensed waste disposal companies.



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It should not allow the product packaging and product to be disposed of with household waste. The product and its packaging should not be mixed with sewage and groundwater.

#### 14. TRANSPORT INFORMATION

Necessary precautions should be taken during the transportation of the product and the rules on the road route should be followed

Mode of Transport	Road	Seaway	Airline
14.1.UN Number	1791	1791	1791
14.2.UN Shipping	CORROSIV	VE LIQUID N.O.S(Sodium	n hydroxide)
Name			
Symbol			8
14.3. Transport Hazard Class	8	8	8
14.4. Packaging Group	II	II	II

**14.5.** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code No information.

#### 15. REGULATORY INFORMATION

# 15.1. Safety, health and environmental regulations/legislation specific fort he substance or mixture

Product; It has been classified and labeled according to the procedures and principles stipulated in the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" and "EU legislation".

Review the following regulations for legislation or other national measures that may be of interest to enforce the provisions of this safety data sheet.

- Regulation on Safety Data Sheets Regarding Harmful Substances and Mixtures
- Regulation on Classification, Labeling and Packaging of Substances and Mixtures
- Regulation on Restrictions on Production, Placement on the Market and Use of Certain Hazardous Substances, Preparations and Goods
- Occupational Health and Safety Regulation
- Regulation on Health and Safety Precautions in Working with Carcinogenic and Mutagen Substances
- Regulation on Health and Safety Precautions in Working with Chemical Substances
- Regulation on the Use of Personal Protective Equipment at Workplaces
- Manual Transport Regulations
- Regulation on Control of Hazardous Wastes
- Regulation on Preventing Major Industrial Accidents and Reducing Their Effects



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# 16. OTHER INFORMATIONS

# 16.1. Regulation

This document has been prepared in accordance with 91/155/EEC, 2001/58/EC, ISO 11014-1 within the framework of the "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" dated 13 December 2014 and numbered 29204 and has been prepared and approved by accredited expert personnel who have been certified in accordance with the regulation.

# 16.2. Information of the preparer of the Safety Data Sheet

GÖKOĞLU KİMYA GID. REK. İNŞ. KOZ. SAN. VE TİC. LTD. ŞTİ. Prepared on your behalf.

Preparer: NURHAN KOÇ

Expert Accreditation No.: TUV/01.370.02

16.3. Revision Date

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16.4. Revision No

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#### 16.5. Reason for Revision

It was arranged for the first time in accordance with the regulation numbered 29204 and December 13, 2014

# 16.6. Hazard and Precautionary Statement

H314	Causes severe skin burns and eye damage	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P264	Wash thoroughly with plenty of water after handling.	
P280	Wear protective gloves/protective clothing/eye protection/face protection	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.	
	Rinse skin with water [or shower].	
P363	Wash contaminated clothing before reuse.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for	
	breathing.	
P321	Specific treatment, see the label.	
P310	Immediately call the NATIONAL POISON ADVICE CENTER PHONE	
	114 or the doctor.	
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes.	
	Remove contact ense sif present and easy to do. Continue rinsing.	
P405	Store locked up	
P501	Dispose of container in accordance with national regulations.	

# 16.7. Explanations on Hazard Classification Methods

	Classification Definition
	Skin corrosion following application of a test substance for up to 4 hours
	irreversible damage to the skin, in other words the epidermis
Skin Corrosive	Visible necrosis throughout and within the dermis.
	income.
Category 1A	Category Classification
	Category 1B (corrosive in $\geq$ 1 of 3 animals)
	Exposure: < 3 minutes
	Observation: ≤ 1 hour
	Concentration Limit Value



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 $C \ge 5\%$ ,  $(C \ge 1 \% \text{ if pH} \ge 11.5)$ 

# 16.8. References/Resources

- Safety Data Sheet(s) for the raw material prepared by the manufacturer.
- "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" and its annexes.
- "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" and its annexes.
- "Regulation on Health and Safety Precautions in Working with Carcinogenic and Mutagen Substances" and its annexes.
- Other relevant local regulations.
- UN ADR, IMDG, IATA lists, ECHA and relevant EU directives.
- Other resources.

# 16.9 Additional Information

This safety data sheet has been prepared based on the information and documents received from the product owner company. The preparer of the SDS cannot be held responsible for the erroneous arrangement of the SDS prepared due to incomplete or incorrect information and documents, and for the material damages and moral negativities that the product owner company may encounter due to this reason. This SDS is in addition to, but does not replace, the manufacturer's instructions. The above information is given as health and safety data. It is not legally binding and does not create a contractual relationship. The information in this information relates to the specific material(s) mentioned in this text and does not apply to materials used in combination with other materials or in any process, and materials that have been modified or treated, unless otherwise stated in the text. It should be applied by the method specified on the product label and product data sheet in this form. The information found includes the regulatory criteria known during the preparation of the Safety Form. Necessary information has been prepared on the basis of the "Regulation on the safety data sheets on harmful substances and mixtures (R.G. dated 13.12.2014 and numbered 29204)".

Relevant institutions and persons are requested to act in accordance with this regulation.

The product-related information in this Safety Data Sheet has been compiled from what is known about the individual ingredients. The data here are based on current knowledge and experience. This Safety Data Sheet examines the product in terms of safety requirements and does not make any guarantees regarding the product's features. The data here is valid only when the product is used for the appropriate application(s). The product is not sold as suitable for other applications. Its use in applications other than its intended use may lead to risks not mentioned in this list. Do not use for other application(s) without consulting the manufacturer. The sections that say "No Information" or "No Data" indicate that there is no definite information obtained in the studies.

- SDS: Safety Data Sheet
- OJ: Offical Journal
- Within the framework of the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" dated 11 December 2013 and No. 28848
- CLP: Classification, Labeling, Packaging
- GHS: Global Harmonised System
- Within the framework of the "Regulation on the Preparation and Distribution of Safety Data Sheets for Dangerous Substances and Preparations" dated 26 December 2008 and No. 27092
- 67/548/EEC European Union substances directive
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- CAS: Chemical Abstracts Service Number (American Chemical Society Division).
- SAE: Regulation on Classification, Packaging and Labeling of Hazardous Substances published in OJ.-26/12/2008-27092



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- DSD: Dangerous Substances Directive
- SEA: Regulation on Classification, Labeling and Packaging of Substances and Mixtures published in OJ.-11/12/2013-28848
- NIOSH: The National Institute for Occupational Safet yand Health
- TWA: Time weighted Average
- Mg/m3: The amount of substance in milligrams in 1 m3 air at pressure (760 mm mercury pressure) at 20 oC and 101.3 KPa.
- ppm: parts per million
- CEN: ComiteEuropeen de Normalisation
- NTP: National Toxicology Program
- UZEM: National Poison Information Center
- IMO: International Maritime Organization
- IARC: The International Agency for Research on Cancer
- OSHA : Occupational Safety and Health Association
- Ref: MSDS Bromine Tablet, ShanghaiHenglijieCo.Limited.
- EWC : European Waste Katalog
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- ADNR: European Agreement Concerning the International Carriage of Dangerous Goods by In land Waterways
- IMDG: International Maritime Code for Dangerous Goods
- ICAO: International Civil Aviation Organization
- IATA: International Air Transport Association
- N.O.S: Not Otherwise Specified
- STOT: Specific Target Organ Toxicity
- C: Concantration

# SAFETY DATA SHEET PREPARED

Chemical Engineer- Nurhan KOÇ Lisans No: TUV/01.370.02 Phone: 0530 317 41 36

V. doge