

SAFETY DATA SHEET**MAKS 10134**

According to Regulation (EC) No. 1907/2008

Issue Date: 30.08.2015

Revision Date: 05.02.2019

Version: 02

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

PRODUCT NAME	MAKS 10134
APPLICATION	SODIUM HYPOCHLORITE 14
SUPPLIER	BİMAKS KİMYA VE GIDA DIŞ TİCARET LTD. ŞTİ. Fatih Sultan Mehmet Mahallesi Şiir Sokak. No: 10 İç Kapı No: 1 Ümraniye/ İSTANBUL Tel: 0 850 522 71 04 Fax: 0216 321 32 13 E-mail: info@bimaskimya.com Web: www.bimaskimya.com.tr
CONTACT PERSON	ÇAĞLA KAYA ŞİMŞEK, ROY KARASU
EMERGENCY TELEPHONE	BİMAKS KİMYA: 0 850 522 71 04

2 HAZARD IDENTIFICATION**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:****Classification according to Regulation (EC) No 1272/2008**

Skin corrosion (Category 1B), H314

Aquatic Acute (Category 1), H400

Aquatic Chronic (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

LABEL ELEMENTS:**Labelling according Regulation (EC) No 1272/2008****PICTOGRAM:****SIGNAL WORD:** Danger**Hazard statement(s):**

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H412-Harmful to aquatic life with long lasting effects.

EUH031: Contact with acids liberates toxic gas.

Precautionary statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P390: Absorb spillage to prevent material damage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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Supplemental Hazard Statements: EUH031 Contact with acids liberates toxic gas.**3 COMPOSITION/INFORMATION ON INGREDIENTS**

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	CLASSIFICATION
7681-52-9	231-668-3	Sodium Hypochlorite	10-16	Met. Corr.1, H290; Skin Corr.1B, H314; STOT SE.3, H335; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411 EUH031

4 FIRST AID MEASURES**GENERAL ADVICE:** Under the shower. Take off immediately all contaminated clothing, including shoes.**IF INHALED:** Move to fresh air. Oxygen or artificial respiration if needed. Keep under medical surveillance. In case of problems : Hospitalise.**IN CASE OF SKIN CONTACT:** Wash immediately, abundantly and thoroughly with water. Consult a physician. In case of extensive burns, hospitalize.**IN CASE OF EYE CONTACT:** Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.**IF SWALLOWED:** Do not induce vomiting, rinse mouth and lips with plenty of water if the subject is conscious, then hospitalize**5 FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA:** Water spray**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:** Dry residue : Contact with combustible material may cause fire. Drying the solid using heat can lead to violent exothermic decomposition**ADVICE FOR FIREFIGHTERS:** In case of fire nearby, remove exposed containers. Cool containers / tanks with water spray. Wear a self contained breathing apparatus. Complete suit protecting against chemicals**FURTHER INFORMATION:** No data available.**6 ACCEDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** Prohibit contact with skin and eyes and inhalation of vapours. Use personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.**ENVIRONMENTAL PRECAUTIONS:** Do not release into the environment. Do not let product enter drains. Dam up and absorb on an inert material.**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Recovery: Pump into a clean labelled emergency container After cleaning, flush away traces with water. recover water for later processing. Neutralisation: Neutralize contaminated water with a sodium thiosulphate solution**REFERENCE TO OTHER SECTIONS:** For disposal see section 13.**7 HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING:** Liquid. Corrosive. with suffocating vapours. Dangerous for the environment Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. Provide self-contained breathing apparatus nearby. Avoid splashing when handling. Only dilute with de-ionised water (cationic resin). Provide waterproof electrical equipment.**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:** Keep tightly closed in a dry, cool and well-ventilated place. Use non-combustible construction materials. Store away from moisture and heat to maintain the technical properties

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of the product. Protect against light. Use only clean equipment. Provide impermeable floor. Provide a catch-tank and anti-corrosion protected electrical equipment in a bunded area. .Store between: 15 °C to 25 °C

SPECIFIC END USE(S): Apart from the uses mentioned in section 2 no other specific uses are stipulated

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS: Components with workplace control parameters.

Exposure Limit Values

Products of decomposition: Chlorine

Source Date Value type Value(ppm) Value(mg/m3) Remarks

INRS (FR) 01 2008 VLE 0,5 1,5 Regulatory binding (VRC)

ACGIH (US) 2007 TWA 0,5 --

ACGIH (US) 2007 STEL 1 --

Sodium hypochlorite

Effects	Exposure	DNEL	Most sensitive endpoint
Hazard limits for workers			
Inhalation	Long term Exposure	1.55 mg/m ³	Repeated Dose toxicity
	Acute/short term Exposure	3.1 mg/m ³	Repeated Dose toxicity
Dermal-Systemic Effects	Long term Exposure	No hazard identified	
	Acute/short term Exposure	Low hazard	
Dermal-Local Effects	Acute/short term Exposure	Low hazard	
Eyes-Local Effects		Low hazard	
Hazard limits for general population			
Inhalation	Long term Exposure	1.55 mg/m ³	Repeated Dose toxicity
	Acute/short term Exposure	3.1 mg/m ³	Repeated Dose toxicity
Dermal-Systemic Effects	Long term Exposure	No hazard identified	
	Acute/short term Exposure	Low hazard	
Dermal-Local Effects	Acute/short term Exposure	Low hazard	
Oral-Systemic Effects	Long term Exposure	0.26mg/kg bw/day	Repeated Dose toxicity
	Acute/short term Exposure	Low hazard	
Eyes		Low hazard	

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS: Provide sufficient air exchange and/or exhaust in work rooms.

EYE/FACE PROTECTION: Safety glasses with side-shields

SKIN PROTECTION: Splash contact, intermittent and prolonged PVC gloves Glove thickness: 1,2 mm

BODY PROTECTION: At the workplace: waterproof suit, Boots. Intervention at incident: Complete chemical protection suit, Boots

RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment. In the case of hazardous fumes, wear self contained breathing apparatus.

CONTROL OF ENVIRONMENTAL EXPOSURE: Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, yellowish liquid
ODOUR:	Strong chlorine odor
PH (1%, 20°C):	11-12
MELTING POINT:	Not applicable
FLASH POINT:	Not applicable

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RELATIVE DENSITY: 1.20-1.23 g/cm³
SOLUBILITY(IES): Miscible with water

10 STABILITY AND REACTIVITY

CHEMICAL STABILITY: Diminution of titration about 1.35° chlorometric per day at 17°C. Stability of the solution decreases under the action of heat, light, and in the presence of impurities (traces of iron, nickel, copper, cobalt, aluminium, manganese)

POSSIBILITY OF HAZARDOUS REACTIONS: No data available

CONDITIONS TO AVOID: Keep at temperatures of between : 15 - 25 °C. Product is sensitive to light and moisture.

INCOMPATIBLE MATERIALS: Acids (violent decomposition with release of chlorine), Metals (decomposition with formation of oxygen), Combustible material

DECOMPOSITION TEMPERATURE: 111 °C

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, Hypochlorous acid, Sodium chlorate

11 TOXICOLOGICAL INFORMATION

Sodium hypochlorite	Acute	Oral	Rat/Male	LD 50: 1100 mg/kg bw
		Inhalation	Rat/Male	LC 50: 10500 mg/m ³
		Dermal	Rabbit/ Male-Female	LD 50: 20000 mg/kg bw
	Irritation	Dermal		adverse effect observed (corrosive)
		Irritasyon		adverse effect observed (irritating)
		Eye		adverse effect observed (irritating)
	Sensitisation	Dermal	Guinea pig	Not sensitising
	Repeated Dose	Oral	Rat/Male-Female	NOAEL: 50 mg/kg bw/day Adverse effect observed
	Fertility	Oral	Rat/Male-Female	NOAEL: 5 mg/kg bw/day No Adverse effect observed
Developmental toxicity	Oral	Rat	NOAEL: 5.7 mg/kg bw/day No Adverse effect observed	

12 ECOLOGICAL INFORMATION

TOXICITY:

PNEC Values	Sodium hypochlorite
Fresh water	0.21 µg/l; 0.26 µg/l (intermittent releases)
Marine	0.042 µg/l
STP	4.69 mg/l
Predators	11.1 mg/kg food

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available.

RESULTS OF PBT AND VPVB ASSESSMENT: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

OTHER ADVERSE EFFECTS: No data available.

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

PRODUCT: Offer surplus and non-recyclable solutions to a licensed disposal company.

CONTAMINATED PACKAGING: Dispose of as unused product.

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14 TRANSPORT INFORMATION**UN NUMBER:**

ADR/RID: 1791 IMDG: 1791 IATA: 1791

UN PROPER SHIPPING NAME

ADR/RID: HYPOCHLORITE SOLUTION

IMDG: HYPOCHLORITE SOLUTION

IATA: Hypochlorite solution

TRANSPORT HAZARD CLASS(ES)

ADR/RID: 8 IMDG: 8 IATA: 8



LABEL: 8

PACKAGING GROUP

ADR/RID: II IMDG: II IATA: II

ENVIRONMENTAL HAZARDS

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

SPECIAL PRECAUTIONS FOR USER: No data available.

15 REGULATORY INFORMATION**THIS SAFETY DATASHEET COMPLIES WITH THE REQUIREMENTS OF REGULATION (EC) NO. 1907/2006.****SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:** No data available.**CHEMICAL SAFETY ASSESSMENT:** For this product a chemical safety assessment was not carried out.**16 OTHER INFORMATION**

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

EMERGENCY TELEPHONE NUMBER(S): 0 850 522 71 04**SDS Authorized Person:** ÇAĞLA KAYA ŞİMŞEK**Certificate Validity Date:** 29.02.2023**Certificate No:** GBF01.43.13