

**SAFETY DATA SHEET****MAKS 2255**

According to Regulation (EC) No. 1907/2008

Issue Date: 29.11.2019 Revision

Date: 26.11.2024

Version: 01

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

**PRODUCT NAME** MAKS 2255  
**APPLICATION** COOLING WATER TREATMENT  
**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@bimakskimya.com](mailto:info@bimakskimya.com)  
Web: [www.bimakskimya.com.tr](http://www.bimakskimya.com.tr)  
**CONTACT PERSON** SILA ARSLAN, 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**

Acute toxicity, Oral (Category 4), H302

Skin corrosion, (Category 1B), H314

Aquatic chronic, (Category 2), H411

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):**

H302 Harmful if swallowed.

H314-Causes severe skin burns and eye damage.

H411-Toxic to aquatic life with long lasting effects.

**Precautionary statement(s):**

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

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

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

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

P273: Avoid release to the environment.

**Supplemental Hazard Statements:** None

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**3 COMPOSITION/INFORMATION ON INGREDIENTS**

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	CLASSIFICATION
29385-43-1	249-596-6	Tolyltriazole (TTA)	30-50	Acute tox.4, H302; Skin corr.1B, H314; Aquatic chronic 2 H411
1310-73-2	215-185-5	Sodium Hydroxide	5-20	Skin corr.1A, H314;

**4 FIRST AID MEASURES**

**GENERAL ADVICE:** In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency

**INHALATION:** Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**SKIN CONTACT:** Get immediate medical attention. Remove contaminated clothing. Wash clothing before reuse. Immediately flush with plenty of water for at least 15 minutes. For a large splash, flood body under a shower.

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention. PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT.

**INGESTION:** Seek medical advice immediately, showing the label and/or SDS. If conscious, washout mouth and give water to drink. If unconscious, do not give anything by mouth, place in the recovery position, check breathing and pulse. If necessary give artificial respiration.

**5 FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Keep containers cool by spraying with water. Use extinguishing media appropriate for surrounding fire.

**FIRE AND EXPLOSION HAZARD:** May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions. In the event of a spill, prevent material and fire water from entering sewers or waterways.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:** In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

**6 ACCEDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). **ADVICE FOR EMERGENCY RESPONDERS;** Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

**ENVIRONMENTAL PRECAUTIONS:** In the event of a spill, prevent material from entering sewers or waterways. Do not allow material to contaminate ground water system. Prevent product from entering drains. If drains, streams, soil or sewers become contaminated, notify local authority. This product may pose a risk to the aquatic ecosystem if released.

**METHODS FOR CLEANING UP:**

**SMALL SPILLS:** Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.

**LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations.

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#### **7 HANDLING AND STORAGE**

**HANDLING:** Prevent contact with skin, eyes and clothing. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Ensure all containers are labeled. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Use personal protective equipment

**HYGIENE RECOMMENDATIONS:** Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke. Eye wash station and safety shower are necessary. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

**STORAGE CONDITIONS:** Store the containers tightly closed. Store in suitable labeled containers. Store separately from acids.

#### **8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Effects	Exposure	DNEL	Most sensitive endpoint
Hazard limits for workers			
Inhalation-Systemic	Long term Exposure	19 mg/m <sup>3</sup> ; LOAEC: 5730 mg/m <sup>3</sup>	Repeated dose toxicity
	Acute/Short term Exposure	Low hazard	
Inhalation-Local	Long term Exposure	No hazard identified	
	Acute/Short term Exposure	Medium hazard	Skin irritation/corrosion
Dermal-Systemic	Long term Exposure	1.08 mg/kg bw/day; LOAEL: 325 mg/kg bw/day	Repeated dose toxicity
Dermal-Local	Long term Exposure	No hazard identified	
	Acute/Short term Exposure	Medium hazard	Skin irritation/corrosion
Dermal-Local	Long/Acute/Short term Exposure	Medium hazard	
Eyes-Local Effects		Medium hazard	
Hazard limits for general population			
Inhalation-Systemic	Long term Exposure	9.55 mg/m <sup>3</sup> ; LOAEC: 5730 mg/m <sup>3</sup>	Repeated dose toxicity
	Acute/Short term Exposure	Low hazard	Acute toxicity
Inhalation-Local	Long term Exposure	No hazard identified	
	Acute/Short term Exposure	Medium hazard	Skin irritation/corrosion
Dermal-Systemic	Long term Exposure	0.54 mg/kg bw/day; LOAEL: 325 mg/kg bw/day	Repeated dose toxicity
Dermal-Local	Long term Exposure	No hazard identified	
	Acute/Short term Exposure	Medium hazard	Skin irritation/corrosion
Oral	Long term Exposure	0.54 mg/kg bw/day; LOAEL: 325 mg/kg bw/day	Repeated dose toxicity
	Acute/Short term Exposure	0.54 mg/kg bw/day	Repeated dose toxicity
Eyes-Local Effects		Medium hazard	

**ENGINEERING MEASURES:** General ventilation is recommended. The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

**GENERAL ADVICE:** The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields.

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**RESPIRATORY PROTECTION:** No exposure limits have been assigned to this product or its components. Nalco recommend the use of a half face filter mask or air supplied breathing apparatus. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: A-P The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**SKIN PROTECTION:** When handling this product, the use of chemical gauntlets is recommended. The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from PVC Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers. The applicable European standard can be found in EN 374. When handling this product, the use of overalls is recommended. The applicable European standard can be found in EN ISO 20345.

**EYE PROTECTION:** When handling this product, the use of splash chemical goggles is recommended. The applicable European standard can be found in EN 166.

**ENVIRONMENTAL EXPOSURE CONTROLS:** Consider the provision of containment around storage vessels.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

**NOTE:** These physical properties are typical values for this product

<b>FORM</b>	: Liquid
<b>COLOUR</b>	: Colorless to yellowish
<b>ODOUR</b>	: None
<b>SPECIFIC GRAVITY</b>	: 1.05 - 1.10 g/cm <sup>3</sup>
<b>pH (25 °C) (100%)</b>	: ≥ 11.0
<b>SOLUBILITY</b>	: Soluble in water

#### 10 STABILITY AND REACTIVITY

**STABILITY:** Stable under ambient conditions.

**CONDITIONS TO AVOID:** Extremes of temperature

**MATERIALS TO AVOID:** Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, Oxides of carbon (under fire conditions).

#### 11 TOXICOLOGICAL INFORMATION

Acute	Oral	Rat/female	LD 50: 500 mg/kg bw-Adverse effect observed
	Dermal	Rabbit/male-female	LD 50: 2000 mg/kg bw-No adverse effect observed
Irritation	Skin	Rabbit	Corrosive
	Eye	Rabbit	Irritating
Sensitisation	Dermal	Guinea pig/male	Not sensitising
Repeated dose toxicity	Oral	Rat/male-female	NOAEL: 150 mg/kg bw/day-Adverse effect observed
Genotoxicity	Oral	Mouse/male-female	Negative
Reproduction	Oral	Rat/male-female	NOAEL: 200 mg/kg bw/day-No adverse effect observed
Developmental	Oral	Rat	NOAEL: 200 mg/kg bw/day-No adverse effect observed

#### 12 ECOLOGICAL INFORMATION

PNEC Values	
Fresh water	0.019 mg/l; 0.158 mg /l (intermittent releases)
Marine	0.019 µg/l
STP	39.4 mg/l
Sediment (Fresh water)	0.004 mg/kg sediment dw

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Sediment (Marine)	0.004 mg/kg sediment dw
Soil	0.003 mg/kg soil dw

Short-term toxicity to fish	LC50 for freshwater fish: 14.84 mg/L LC50 for marine water fish: 30.75 mg/L
Short-term toxicity to aquatic invertebrates	EC50/LC50 for freshwater invertebrates: 15.8 mg/L EC50/LC50 for marine water invertebrates: 44.9 mg/L
Long-term toxicity to aquatic invertebrates	EC10, LC10 or NOEC for freshwater invertebrates: 0.97 mg/L EC10, LC10 or NOEC for marine water invertebrates: 10 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 for freshwater algae: 75 mg/L EC50 for marine water algae: 53 mg/L EC10 or NOEC for freshwater algae: 1.18 mg/L EC10 or NOEC for marine water algae: 30 mg/L
Toxicity to microorganisms	EC50 for microorganisms: 1 060 mg/L EC10 or NOEC for microorganisms: 394 mg/L

#### PHOTOTRANSFORMATION IN AIR:

Half-life in air: 10.7 d

Degradation rate constant with OH radicals: 0 cm<sup>3</sup> molecule<sup>-1</sup> d<sup>-1</sup>

#### HYDROLYSIS:

Half-life for hydrolysis: 365 d (20 °C)

#### BIODEGRADATION IN WATER:

Under test conditions no biodegradation observed

#### BIODEGRADATION IN SOIL:

Half-life in soil: 180 d (20 °C)

#### BIOACCUMULATION: AQUATIC / SEDIMENT:

BCF (aquatic species):

3.162 L/kg ww

### 13 DISPOSAL CONSIDERATIONS

Contact an approved waste hauler for disposal of contaminated recovered material. Any chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, municipal sewers, drains, natural streams or rivers. Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

### 14 TRANSPORT INFORMATION

#### UN NUMBER:

ADR/RID: 3266

IMDG: 3266

IATA: 3266

#### UN PROPER SHIPPING NAME

ADR/RID: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

#### 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: yes

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**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:** SILA ARSLAN**Certificate Validity Date:** 09.10.2028**Certificate No:** TÜV/11.214.09