

SAFETY DATA SHEET**MAKS 1311 M3**

According to Regulation (EC) No. 1907/2008

Issue Date: 17.06. 2014

Revision Date: 13.02.2023

Version: 02

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

PRODUCT NAME MAKS 1311 M3
APPLICATION CONDENSATE 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
Web: 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**

Flammable liquids (Category 3), H226
Acute Toxicity / Inhalation (Category 4), H332
Acute Toxicity / Dermal (Category 3), H311
Acute Toxicity /Oral (Category 4), H302
Skin corrosion/Irritation (Category 1A), H314
Specific target organ toxicity - single exposure (Category 3), H335
Stot Re.(Category 1), H372
Reproduction, (Category 2), H361f
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):**

H226 Flammable liquid and vapor.
H311-Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H302+H332-Harmful if swallowed or if inhaled
H335-May cause respiratory irritation.
H361-Suspected of damaging fertility or the unborn child
H372- Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

PRECAUTIONARY STATEMENT(S):

P201:Obtain special instructions before use.

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P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray

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

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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

P301 +P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P501: Dispose of contents/container according to the regulations

3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	CLASSIFICATION
108-91-8	203-629-0	Cyclohexylamine	1-5	Flam.Liq. 3 H226; Acute Tox.4,H302+H312; Skin Corr.1B, H314; Repr. 2, H361f
110-91-8	203-815-1	Morpholine	5-20	Flam.Liq. 3 H226; Acute Tox.3,H311+H331; Acute Tox.4, H302; Skin Corr.1A H314
100-37-8	202-845-2	2-Diethylaminoethanol	1-5	Flam.Liq. 3 H226; Acute Tox.3,H311+H331; Acute Tox.4, H302;Skin Corr.1B, H314; STOT SE.3, H335 (C≥5)
7173-62-8	230-528-9	(Z)-N-9-octadecenylpropane-1,3-diamine	1-5	Acute Tox. (Category 4) H302, Skin corrosion (Category 1B), H314, Stot Re.(Category 1), H372

4 FIRST AID MEASURES

INHALATION: Remove to fresh air, rest, treat symptomatically. Obtain medical attention immediately.

SKIN CONTACT: Speed is essential. Remove contaminated clothing. Wash off affected area immediately with plenty of water. If severe burns have occurred and areas of skin are destroyed, cover the burned area with clean dry non fluffy material and obtain medical attention.

EYE CONTACT: Speed is essential. Immediately gently irrigate with clean water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention immediately.

INGESTION: Do not induce vomiting without medical advice. If conscious washout mouth and give one pint of water to drink. Obtain medical attention immediately.

ADDITIONAL INFORMATION: Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water, dry powder, carbon dioxide, alcohol foam

FIRE AND EXPLOSION HAZARD: Oxides of nitrogen, Oxides of carbon (under fire conditions).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: Water mist may be used to cool closed containers. In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Remove sources of ignition. Ensure adequate ventilation. Wear organic vapor respirator if ventilation is inadequate. Wear chemical resistant apron, chemical splash goggles, impervious gloves and Wellington boots. A full slicker suit is recommended if gross exposure is possible.

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter sewers or water courses. If spillage does enter sewers or water courses, immediately inform the appropriate water authorities. These may ignite when dried out.

METHODS FOR CLEANING UP: Contain and absorb with sand or vermiculite and mix well. Collect up and remove to a safe place until disposal. Wash site of spillage thoroughly with water and detergent. Assistance can be obtained from waste disposal companies.

7 HANDLING AND STORAGE

HANDLING: Prevent contact with skin, eyes and clothing. Use with adequate ventilation. No smoking.

STORAGE CONDITIONS: Protect from freezing. Keep container tightly closed in a cool, well-ventilated place. Store separately from acids. Storage for more than two years is not recommended.

CONSTRUCTION MATERIAL COMPATIBILITY: Compatible with: Equipment for storage and application should be constructed from stainless steel, carbon steel, cast iron or PTFE. Avoid use of copper, Zinc, aluminum and their alloys, natural rubber, butyl rubber, nitrile rubber, neoprene and viton.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: No data available

ENGINEERING MEASURES Use a closed dosing system. Local exhaust ventilation if necessary to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION: Wear organic vapor respirator if ventilation is inadequate (filter-type A). Amine rich air will be displaced when refilling stock tanks. If it is necessary to remain near to the container at such times and the area is poorly ventilated an approved respirator should be worn.

HAND PROTECTION: Butyl gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.

SKIN PROTECTION: Apron and boots

EYE PROTECTION: Chemical splash goggles

HYGIENE RECOMMENDATIONS: Keep an eye wash fountain available. Keep a safety shower available. Wash hands during breaks and at end of the shift. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Colorless to yellowish
ODOR:	Amine
SPECIFIC GRAVITY:	0.99 ± 0.05 g/cm ³ (22 °C)
SOLUBILITY IN WATER:	Complete
pH (neat, 20°C):	13 ± 1.0

Note: These physical properties are typical values for this product and are subject to change.

10 STABILITY AND REACTIVITY

STABILITY: Stable under ambient conditions

CONDITIONS TO AVOID: Heat. Freezing temperatures

MATERIALS TO AVOID: Acids, Oxidizing agents.

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

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11 TOXICOLOGICAL INFORMATION

The following results are for a similar product.

ACUTE ORAL TOXICITY:

Species	LD50	Test Descriptor
Rat	799 mg/kg	Product

ACUTE DERMAL TOXICITY:

Species	LD50	Test Descriptor
Rabbit	2055 mg/kg	Product

ACUTE INHALATION TOXICITY:

Species	LC50	Test Descriptor
Rat	> 12,000 ppm	Product

PRIMARY SKIN IRRITATION: 8.0 /8.0**PRIMARY EYE IRRITATION:** 110.0 /110.0**SENSITIZATION:** No data available**CHRONIC TOXICITY DATA:** No data available nitrosamines.**12 ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL EFFECTS**

Fish: LC50 650 mg/l (OECD-Guideline 203)

Algae: EC50 = 5000 mg/l (OECD-Guideline 201)

Bacteria: Pseudomonas Putida = 7500 mg/l (DEV L 3)

LC50/96H/Pimephales promelus (Fathead Minnow) = 75 mg/l

LC50/96H/Oncorhynchus Mykiss (Rainbow Trout) = 130 mg/l

LC50/48H/Daphnia magna (Water Flea) = 190 mg/l

LC50/96H/Cyprinodon variegatus (Sheepshead Minnow) = 454 mg/l

LC50/96H/Mysidopsis bahia (Mysid Shrimp) = 131 mg/l

PERSISTENCY AND DEGRADATION

Biodegradability: 89% (OECD 301c)

Chemical Oxygen Demand (COD) 807 mg O₂ / g product**MOBILITY AND BIOACCUMULATION POTENTIAL:** No data available**ADDITIONAL ECOLOGICAL DATA:** Product contains no organic halogens**13 DISPOSAL CONSIDERATIONS**

Via authorized contractor. If this product becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code.

NATIONAL REGULATIONS UK: In accordance with the Environmental Protection (Duty of Care) Regulations 1991. Special Waste Regulations 1996 apply.

NATIONAL REGULATIONS AUSTRIA: Waste Code: 55352

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14 TRANSPORT INFORMATION**UN NUMBER:**

ADR/RID: 2920

IMDG: 2920

IATA: 2920

UN PROPER SHIPPING NAME

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

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

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

TRANSPORT HAZARD CLASS(ES)

ADR/RID: 8

IMDG: 8

IATA: 8



LABEL: 8+3

PACKAGING GROUP

ADR/RID: II

IMDG: II

IATA: II

ENVIRONMENTAL HAZARDS

ADR/RID: No

IMDG Marine pollutant: No

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