

SAFETY DATA SHEET**MAKS 1354**

According to Regulation (EC) No. 1907/2008

Issue Date: 24.08.2022

Revision Date: -

Version: 00

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

PRODUCT NAME MAKS 1354
APPLICATION CORROSION AND LIME SCALE INHIBITOR
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2 HAZARD IDENTIFICATION**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. (Category 4) H302

Acute Tox. (Category 4), H312

Skin corrosion (Category 1B), H314

Eye Dam. (Category 1), H318

Specific target organ toxicity, single exposure (Category 3), H335

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.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENT(S):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

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

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

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3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	EINECS NO.	CHEMICAL NAME	W%	CLASSIFICATION
141-43-5	205-483-3	2-aminoethanol	1-5	Acute Tox. (Category 4) H302, Acute Tox. (Category 4), H312, Skin corrosion (Category 1B), H314, Eye Dam. (Category 1), H318
-	-	Aliphatic amines	≤1	

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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:** Use dry chemical, CO₂, water spray (fog) or foam.**FIRE AND EXPLOSION HAZARD:** Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.**HAZARDOUS COMBUSTION PRODUCTS:** Decomposition products may include the following materials: carbon oxides, nitrogen oxides.**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS:** No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.**ENVIRONMENTAL PRECAUTIONS:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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METHODS FOR CLEANING UP: Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7 HANDLING AND STORAGE

HANDLING: Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Keep the containers closed when not in use. Keep away from acids.

STORAGE CONDITIONS: Store the containers tightly closed. Store separately from acids. Store in a cool well ventilated area away from direct sunlight.

SUITABLE CONSTRUCTION MATERIAL: HDPE (high density polyethylene), PVC, Buna-N, Polyethylene, Polypropylene, Stainless steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

UNSUITABLE CONSTRUCTION MATERIAL: Brass, Polyurethane, Hypalon, Viton, Neoprene, EPDM

For specific dosages and customized applications please contact your representative.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: Exposure guidelines have not been established for this product.

ENGINEERING MEASURES: General ventilation is recommended.

PERSONAL PROTECTION

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 work clothes 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. The applicable European standard can be found in EN 166.

RESPIRATORY PROTECTION: Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. 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 141, EN 143 and EN 371. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND 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.

SKIN PROTECTION: When handling this product, the use of a chemical resistant suit and rubber boots is recommended. The applicable European standard can be found in EN 345.

EYE PROTECTION: Wear a face shield with chemical splash goggles. The applicable European standard can be found in EN 166.

HYGIENE RECOMMENDATIONS: Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. 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.

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9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Light yellow or yellow
ODOR:	Characterized by amine
SPECIFIC GRAVITY (25 °C):	0.97 - 1.07 g/cm ³
SOLUBILITY IN WATER:	Complete
pH (1%) (25 °C):	10.0 - 13.0

NOTE: These physical properties are typical values for this product and are subject to change.**10 STABILITY AND REACTIVITY****STABILITY:** Stable under normal conditions.**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur.**CONDITIONS TO AVOID:** None known.**MATERIALS TO AVOID:** Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfuric) may generate heat, splattering or boiling and toxic vapors.**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions: Oxides of Carbon & Oxides of Nitrogen.**11 TOXICOLOGICAL INFORMATION**

No toxicity studies have been conducted on this product.

12 ECOLOGICAL INFORMATION**ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION:** Based on our hazard characterization, the potential environmental hazard is: Low Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low**PERSISTENCY AND DEGRADATION:** The organic portion of this preparation is expected to be readily biodegradable.**BIOACCUMULATION POTENTIAL:** This preparation or material is not expected to bioaccumulate.**13 DISPOSAL CONSIDERATIONS**

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations. 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. This product is ashless and can be burned directly in appropriate equipment. Any chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

14 TRANSPORT INFORMATION**UN NUMBER:****ADR/RID:** 3267**IMDG:** 3267**IATA:** 3267**UN PROPER SHIPPING NAME****ADR/RID:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.**IMDG:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.**IATA:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.**TRANSPORT HAZARD CLASS(ES)****ADR/RID:** 8**IMDG:** 8**IATA:** 8

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LABEL: 8

PACKAGING GROUP

ADR/RID: II

IMDG: II

IATA: II

ENVIRONMENTAL HAZARDS

ADR/RID: No

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:** ŞEVVAL GÖKÇE DENKÇİ**Certificate Validity Date:** 31.12.2023**Certificate No:** GBF01.60.02