

SAFETY DATA SHEET**MAKS 2224D**

According to Regulation (EC) No. 1907/2008

Issue Date: 26.08.2022

Revision Date: -

Version: 00

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

PRODUCT NAME MAKS 2224D
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**

Aquatic Acute (Category 1), H400

Aquatic Chronic (Category 1), H410

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:** Warning**HAZARD STATEMENT(S):**

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effect

PRECAUTIONARY STATEMENT(S):

P101 If medical advice is needed, have product container or label at hand.

P273 Avoid release to the environment.

P310 Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

P501 Dispose of contents/container to ...

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3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	EINECS NO.	CHEMICAL NAME	W%	CLASSIFICATION
-	-	Proprietary	20-30	Aquatic Acute (Category 1), H400 Aquatic Chronic (Category 1), H410

*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, treat symptomatically. If symptoms develop, seek medical advice.

SKIN CONTACT: Flush affected area with water. If symptoms develop, seek medical advice.

EYE CONTACT: Immediately flush eye with water for at least 15 minutes while holding eyelids open. Get medical attention.

INGESTION: Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

5 FIRE FIGHTING MEASURES

FLASH POINT: None

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. 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.

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:

SMALL SPILLS: Dike and absorb with inert material (e.g. dry earth, sand), shovel all contaminated solids into a pail or drum and then treat with enough deactivation solution to wet the solids thoroughly. Let these containers stand open for 48 hours to prevent pressure build up and then seal for disposal. Equipment containing residues should be decontaminated before carrying out maintenance or repair work or using for other service. Contaminated surfaces should be swabbed with deactivation solution, wait for the reaction to subside and rinse thoroughly with clean water.

PERSONAL PRECAUTIONS: Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

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METHODS FOR CLEANING UP:

SMALL SPILLS: 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. Assistance can be obtained from waste disposal companies. **LARGE SPILLS:** Dike to prevent further movement. Recover by pumping or by using a suitable absorbent. Reclaim into recovery or salvage drums. Wash site of spillage thoroughly with water. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS: Do not contaminate surface water., Do not allow material to contaminate ground water system., Prevent material from entering sewers or waterways.

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.

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Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Colorless or pale yellow
ODOR:	weak
SPECIFIC GRAVITY (25 °C):	1.20 - 1.30 g/cm ³
SOLUBILITY IN WATER:	Complete
FREEZING POINT:	-1°C
pH (100%) (25 °C):	6.0-9.0

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.

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14 TRANSPORT INFORMATION**UN NUMBER:**

ADR/RID: 3082

IMDG:3082

IATA: 3082

UN PROPER SHIPPING NAME

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

TRANSPORT HAZARD CLASS(ES)

ADR/RID: 3082

IMDG: 3082

IATA: 3082

LABEL: -

PACKAGING GROUP

ADR/RID: III

IMDG: III

IATA:III

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