

SAFETY DATA SHEET**MAKS 6450**

According to Regulation (EC) No. 1907/2008

Issue Date: 22.08.2023

Revision Date: -

Version: 01

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

PRODUCT NAME MAKS 6450
APPLICATION COAGULANT
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2 HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

LABEL ELEMENTS: The product does not need to be labelled in accordance with EC directives or respective national laws.

PRECAUTIONARY STATEMENT(S):

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

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

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

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

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.

It does not influence the taste and smell of drinking water. It is not toxic to human health

3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	EINECS NO.	CHEMICAL NAME	W%	CLASSIFICATION
Proprietary	-	Epichlorohydrin/dimethylamine copolymer	49-52	Aquatic chronic 3, H412

4 FIRST AID MEASURES

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

SKIN CONTACT: Remove contaminated clothing. Wash off affected area immediately with plenty of water. Obtain medical attention.

EYE CONTACT: 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.

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

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5 FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.**FIRE AND EXPLOSION HAZARD:** Carbon monoxide (CO); carbon dioxide (CO₂); nitrogen oxides (NO_x); phosphorus oxides (P_xO_y)**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:** 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. Do not touch spilled material. Ventilate spill area if possible.**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. 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. Use with adequate ventilation. Do not breathe vapors/gases/dust. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Discard contaminated shoes, belts and other articles made of leather. Skin reaction can be delayed and therefore wetting of the skin and/or clothes does not always give an indication of contamination. Treat all wetting of the skin and/or clothes which occurs during handling as contact with the product and administer first aid immediately. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).**STORAGE CONDITIONS:** Store in suitable labeled containers. Store the containers tightly closed.**SUITABLE CONSTRUCTION MATERIAL:** PVC, polyurethane, polypropylene, polyethylene, stainless steel 304**UNSUITABLE CONSTRUCTION MATERIAL:** Brass, Buna-N, Hypalon, Viton, Neoprene**SPECIAL USE(S):** REVERSE OSMOSIS ANTISCALANT

For specific dosages and customized applications please contact your BİMAKS representative.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMITS:** This product does not contain any substance that has an established exposure limit.**ENGINEERING MEASURES:** General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.**RESPIRATORY PROTECTION:** If significant mists, vapors or aerosols are generated an approved respirator is recommended.**HAND PROTECTION:** Nitrile gloves, Butyl gloves, PVC gloves, Neoprene gloves**SKIN PROTECTION:** Wear standard protective clothing.**EYE PROTECTION:** Wear chemical splash goggles.**HYGIENE RECOMMENDATIONS:** Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Keep an eye wash fountain available.

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9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Slightly yellowish
ODOR:	Amine-like
BULK DENSITY:	1.12 – 1.16 g/cm ³
pH:	4.0 -6.0
IONIC CHARGE:	Very high
BROOKFIELD VISCOSITY:	650 - 1000 cps
FREEZING POINT:	-30C
STORAGE TEMPERATURE:	0 - 35 0C;
MAXIMUM ALLOWED IMPURITIES IN THE COAGULANT:	

- Residual epichlorohydrin: <1 ppm;
- 1,2-dichloro-3-propanol: < 40 ppm;
- 1,3-dichloro-2-propanol: < 40 ppm;
- 3-monochloropropane-1,2-diol: < 40 ppm;
- Glycidol: < 40 ppm;
- DIMETHYLAMINE: < 2000 ppm;

CHARACTER IONIC: Cationic**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:** Freezing temperatures.**MATERIALS TO AVOID:** Strong oxidizing agents Strong acids**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions: Oxides of carbon, Oxides of nitrogen.**11 TOXICOLOGICAL INFORMATION**

Following results are for the product:

ACUTE ORAL TOXICITY:

Species	LD50	Test Descriptor
Rat	> 5000 mg/kg	Product

ACUTE DERMAL TOXICITY:

Species	LD50	Test Descriptor
Rabbit	> 5000 mg/kg	Product

SENSITIZATION: This product is not expected to be a sensitizer.**CARCINOGENICITY:** None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 2 and 12.

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12 ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL EFFECTS:** Following results are for the product.**ACUTE FISH RESULTS:**

Species	Exposure	LC50	Method	Test Descriptor
Rainbow Trout	96 hrs	> 290 mg/l		Product

ADDITIONAL ECOLOGICAL DATA: AOX information: Product contains no organic halogens.

MOBILITY: The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

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Air	Water	Soil/sediment
< 5%	30 - 50%	50 - 70%

The portion in water is expected to be soluble or dispersible.

PERSISTENCY AND DEGRADATION: The organic portion of this preparation is expected to be inherently 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.

EUROPE WASTE CODE: 16 03 03* - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

14 TRANSPORT INFORMATION**UN NUMBER:****ADR/RID:** -**IMDG:** -**IATA:** -**UN PROPER SHIPPING NAME****ADR/RID:** Not dangerous goods**IMDG:** Not dangerous goods**IATA:** Not dangerous goods**TRANSPORT HAZARD CLASS(ES)****ADR/RID:** -**IMDG:** -**IATA:** -**PACKAGING GROUP****ADR/RID:** -**IMDG:** -**IATA:** -**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: No data available.

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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