SAFETY DATA SHEET
HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name HYDROMX

Chemical name Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses A solution composed of various organic fluids in different proportion and used as 50% Hydromx 50% water in closed circuit cooling and heating systems as a heat transfer fluid.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Hydromx INC.
58-75 57th Road Maspeth
11378 NY, USA.
Tel.:+1.718.381.0351

1.4. Emergency telephone number

Emergency telephone HYDROMX +1.718.381.0351

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EU 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed.

Precautionary statements P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Ethanediol, Tolyl triazole

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ethanediol **60-80%**

CAS number: 107-21-1 EC number: 203-473-3

Classification
Acute Tox. 4 - H302

Glycerine **10-20%**

CAS number: 56-81-5 EC number: 200-289-5

Classification
Not Classified

Citric acid **1-5%**

CAS number: 77-92-9 EC number: 201-069-1

Classification
Eye Irrit. 2 - H319
STOT SE 3 - H335

Tolyl triazole **1-5%**

CAS number: 29385-43-1 EC number: 249-596-6

Classification
Acute Tox. 4 - H302
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

Composition comments See section 8 for workplace exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Remove any dentures. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
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Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Small Spillages: Absorb spillage with non-combustible, absorbent material. Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with acid. Caution. May generate heat. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from the following materials: Acids. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Ethanediol

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour
Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour
Sk
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate
Sk

Ethanediol (CAS: 107-21-1)

DNEL	Workers - Dermal; Long term systemic effects: 106 mg/kg/day Workers - Inhalation; Long term local effects: 35 mg/m³ Consumer - Dermal; Long term systemic effects: 53 mg/kg/day Consumer - Inhalation; Long term local effects: 7 mg/m³
PNEC	Fresh water; 10 mg/l marine water; 1 mg/l Sediment (Freshwater); 37 mg/kg Sediment (Marinewater); 3.7 mg/kg STP; 199.5 mg/l Soil; 1.53 mg/kg Intermittent release; 10 mg/l

8.2. Exposure controls

Protective equipment



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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Neoprene.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is ‘UKCA’-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.

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Commission Regulation (EU) 2020/878 of 18 June 2020.
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Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Red.
Odour	Slight chemical smell
Odour threshold	No information available.
pH	pH (concentrated solution): 8.20-8.80
Melting point	-73°C
Initial boiling point and range	200°C @
Flash point	283°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.10 ± 0.2 g/ cm^3
Solubility(ies)	Completely soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Oxidising properties	No information available.
Particle characteristics	Not applicable.

9.2. Other information

Other information	No information required.

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Acid anhydrides. Acids. Phenols, cresols.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Notes (oral LD_{50}) Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 769.23

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May cause temporary eye irritation.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

11.2. Information on other hazards

Information on other hazards	This product does not contain any known or suspected endocrine disruptors.

Toxicological information on ingredients.

Ethanediol

Acute toxicity - oral	
Notes (oral LD_{50})	LD_{50} 8,54 g/kg, Oral, Rat LD_{50} 6,61 g/kg, Oral, Pig. LD_{50} 13,7 g/kg, Oral, Mouse LD_{50} 4.700 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Notes (dermal LD_{50})	LD_{50} >3500 mg/kg, Dermal, Mouse LD_{50} 9530 mg/kg, Dermal, Rabbit LD_{50} 10.626 mg/kg, Dermal, Rabbit

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Energy Saving Solution

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC_{50} 140-160 ppm, Inhalation, Rat
8 hour, day 16 week

Glycerine

Acute toxicity - oral Acute toxicity oral (LD_{50} mg/kg) 12,600.0

Species Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} 56750 mg/kg, Dermal, Guinea pig

Tolyl triazole

Acute toxicity - oral ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

Ethanediol

Acute aquatic toxicity

Acute toxicity - fish
LC_{50}, 24-48 hour: 20 mg/l, Lepomis macrochirus (Bluegill)
LC_{50}, 96 hour: 18.500 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC_{50}, 48 hour: >10.000 mg/l, Leuciscus idus (Golden orfe)
NOEC, 7 day: 32.000 mg/l, Pimephales promelas (Fat-head Minnow)
NOEC, 96 hour: 39.140 mg/l, Pimephales promelas (Fat-head Minnow)
LC_{50}, : > 72860 mg/l, Pimephales promelas (Fat-head Minnow)

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Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.

Acute toxicity - aquatic invertebrates	EC_{50}, 24 hour: 74.000 mg/l, Daphnia magna NOEC, 48 hour: 24.000 mg/l, Daphnia magna LC_{50}, 48 hour: 41.000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC_{50}, 24 hour: 12,8 mmol/l, ciliate EC_{50}, : >1400 mg/l, Microcystis aeruginosa NOEC, 23 day: ≥ 1000 mg/l, Mysidopsis bahia
Acute toxicity - microorganisms	LC_{50}, : 92 mg/l, Pseudomonas putida
Chronic aquatic toxicity	
Chronic toxicity -Aquatic Plants	>700 mg/l entosiphone sulcatum

Glycerine

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: >5000 mg/l, Fish
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >2900 mg/l, Algae
Acute toxicity - microorganisms	EC_{50}, : 10000 mg/l, Pseudomonas putida

Citric acid

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 48 hour: 440 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hour: 1535 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 8 day: 425 mg/l, Freshwater algae

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Commission Regulation (EU) 2020/878 of 18 June 2020.
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12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Ethanediol

Persistence and degradability	The substance is readily biodegradable.
BOD/ThBOD	0,78 %

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Ethanediol

Bioaccumulative potential	Potentially bioaccumulating.
Bioconcentration factor (BCF)	0,60

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

Ecological information on ingredients.

Ethanediol

Mobility	The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.

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12.7. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Reuse or recycle products wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1.UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Commission Regulation (EU) 2020/878 of 18 June 2020. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). According to Regulation (EC) No 1907/2006, Annex II, as amended.
EU legislation	Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH).
Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	Not relevant.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	TWA: Time weighted Average WEL: Workplace Exposure Limit STEL: Short Term Exposure Limits ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC_{50}: 50% of maximal Effective Concentration.
Key literature references and sources for data	This SDS is prepared based on the information received from the product owner.

HYDROMX

Commission Regulation (EU) 2020/878 of 18 June 2020.
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Classification procedures according to SI 2019 No. 720	Acute Tox. 4 - H302: : Calculation method.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision comments	SDS has been revised under the current regulations.
Issued by	Büşra Tarakci / CRAD gbf@crad.com.tr Tel.:+90 216 3354600
Revision date	13/10/2026
Revision	3.1
Supersedes date	14/06/2016
SDS number	5932
Hazard statements in full	H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects.

Disclaimer
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