

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS was written according to Regulations on Safety Data Sheets Preparation and distribution for Hazardous Substances and Preparations (26.12.2008, no: 27092 R.G.)

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

#### 1.1 Product name description

Commercial:	Hydromx
Chemical name:	Solution
Formula:	Solution
CAS No:	Solution
EINECS No:	Solution

#### 1.2 Use of Product:

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.

#### 1.3 Manufacturer Information:

Company name: HYDROMX INTERNATIONAL Kimya Sanayi ve Ticaret A.Ş  
Address: Beylikdüzü OSB MAh. Birlik San. Sit.3 cad.No:5/45 34520 İstanbul/Türkiye  
Phone: + 90 532 111 10 15 pbx

#### 1.4 Emergency Telephone Number

Professionals should contact the National Poison Information Service Members of the Public seeking specific information should contact:

**National Poison Centre (UZEM) 114(Turkey)**

**114**

**The United States of America**

**National Poison Control Centre 24/7**

**1-800-222-1222**

England and Wales: NHS Direct:

**0845 4647 or 111**

Scotland: NHS 24 :

**08454 24 24 24**

Republic of Ireland:

**01 809 21 66**

## 2 -HAZARDS INDEDTIFICATION

Not classified as hazardous material. [European Directive 1999/45EC] Following warnings should be made;

<b>Inhalation</b>	: There is no significant health risk.
<b>Skin Contact</b>	: There is no significant health risk.
<b>Eye Contact</b>	: There is no significant health risk.
<b>Ingestion</b>	: Harmful if swallowed.
<b>Environmental</b>	:Harmful to aquatic organisms and may cause side effects around water environments.
<b>Physical and Chemical</b>	:Contact with acids liberates toxic gas.

## 3- PRODUCT COMPONENTS

Name	Product identifier	%	Classification according to regulation (EC)
No.1272/2008 [CLP]			
Ethenediol	(CAS No) 107-21-1 (EC no)203-473-3 (EC index no)603-027-00-1 (REACH-no) 05-2114290033-58-0000	60-90	Acute Tox. 4 (oral), H302 Xn R22
Glycerine	(Cas no)56-81-5 (EC no)200-289-5 (REACH- no)	<25	
Triethanolamine	(CAS No)102-71-6 (EC no)203-49-8 (REACH-no)	<18	Xi, H319 R36/37/38 R51/53
Sodium molybdate Dihydrate	(CAS No) 10102-40-6 (EC no)600-158-6 (REACH-no) 012119489495-21-0003	<4	R 36/37/38

Name	Product identifier	%	Classification according to regulation (EC)		
Citric Acid	(CAS No)77-92-9		Xi; R36		
	(EC no)201-069-1	<3	Eye Irrit. Cat 2; H319		
	(REACH-no)01-2119457026-42-002				
Tolyl triazole R20/22	(CAS No)29385-43-1		Xn	harmful	
	(EC no)249-596-6	<2			
	(REACH-no)		Xi	Irritant	R36

#### 4- FIRST - AID MEASURES

<b>Inhalation</b>	: Go out for fresh air, rest, treat symptomatically. Obtain medical attention.
<b>Skin Contact</b>	: Remove contaminated clothing. Wash off affected area immediately with plenty of water
<b>Eye Contact</b>	: Immediately and gently douse eye in clean warm water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention in case of eye irritation.
<b>Ingestion</b>	: Rinse mouth immediately and repeatedly with water. If large amounts are swallowed seek medical advice immediately, showing the label and/ or MSDS. Do not induce vomiting without medical advice

#### 5- FIRE - FIGHTING MEASURES

<b>Fire and Explosion Hazard</b>	:No dangerous reaction in case of fire.
<b>Extinguishing Media</b>	:Water spray, foam, dry powder, carbon dioxide. Watermist may be used to cool closed containers.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jets.
<b>Special Protective Equipment</b>	:In case of fire, wear a full face positive-pressure self-breathing apparatus.

## 6- ACCIDENTAL RELEASE MEASURES

- Personal Precautions** : Avoid inhalation of vapour. Avoid contact with flame and sources of heat. Immediately remove all contaminated clothing. Observe special precautions in case of fire (see clause 5).
- Environmental Precautions** : Do not allow material to contaminate ground water system.
- Methods for Cleaning Up** : Soak up with inert absorbent material. Clean up promptly by scoop or vacuum. Dam up. Reclaim into recovery or salvage drums.

## 7- HANDLING AND STORAGE

- Handling** : Avoid contact with eyes, skin, clothing and footwear. Wash hands after handling.
- Storage Conditions** : Store only in the original container. Keep away from combustible material.

## 8- EXPOSURE CONTROLS / PERSONAL PROTECTION

- Ventilation and Engineering Measures** :No special equipment required. Good ventilation. Changing rooms and showers in the work place.
- Respiratory Protection** :No required.
- Hand protection** :PVC gloves, Nitrile gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.
- Skin Protection** :It is advisable to wear a protective suit to avoid skin contact.
- Eye Protection** :Sealed goggles should be worn.

## 9. PROPERTIES OF PRODUCT

### 100% Hdyromx Solution

Form	Liquid
Colour	Red
Odour	Slight chemical smell
PH Value	8,20-8,80
Freezing Point	- 73 °C
Boiling Point	200 °C
Dentity at 20 C	1,10 ± 0,2 g/ cm3
Flash Point	283 °C
Vapour	Pressure at 80 C 173mm Hg =0,23bar =0,023 Mpa
Solubility in water	Completely

## 10- STABILITY AND REACTIVITY

<b>Conditions to Avoid</b>	: Do not heat when undiluted.
<b>Materials to Avoid</b>	: Mixing with acids, alkalis, halogens, alkali metals can cause a reaction too.
<b>Hazardous Decomposition</b>	: No dangerous reaction in case of fire.

## 11- TOXICOLOGICAL INFORMATION

Hazards classifications written under 199/45/EC, 67/548/EEC regulations and chemical toxicity values:

<b>Eye Contact</b>	: Irritant. Avoid exposure to the vapour.
<b>Skin Contact</b>	: Irritation may be cause by prolonged direct skin contact with the product in a long time period
<b>Intoxication (Skin Contact)</b>	: Minimal risk of intoxication.
<b>Intoxication (Swallowing )</b>	: Intoxication could occur. 50 LD>4700mg/kg and LDLO>786mg/kg
<b>Intoxication (Inhalation)</b>	: Prolonged inhalation could cause intoxication.

## 12. ECOLOGICAL INFORMATION

**Biological Decomposition** : Biodegradable.

**Mobility** : Spills may cause contamination to ground.

**Bioaccumulation Potential** : There is no expected potential.

**Environmental Impacts** : It is harmful for water-borne organisms.

**Other Ecological Information:** Spills may create a film on the water surface and may harm organisms physically by blocking oxygen transfer. Contact with the ground should be avoided. Wasted and spilled product should be kept and should not be classified under any ecological specification.

## 13. DISPOSAL CONSIDERATIONS

### Information about Destruction

This product, when being disposed of in its unused and uncontaminated state, should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local bylaws governing hazardous waste. Product content and containers must be disposed via licensed operators. For used, contaminated and residual materials additional evaluations may be required.

## 14. SHIPPING INFORMATION

According to ADR/RID, IMO/IMDG, TDG and LATA/ I CAD regulations, product classified as non- hazardous.



## 15. LEGALITY

### Biocidal Products Directive (Directive 98/8/EC) Information:

There is no information is ESIS for this substance with respect to the BPD.

### Classification and Labelling Information:

This substance is not classified in the Annex I of Directive 67/548EEC as such, but it may be included in one of the group entries. An example of group entry is 033-022-00-5 arsenic compounds with the exception of those specified elsewhere in this Annex. Substances not listed either individually or in group entries must be self classified.

### Export and Import of Dangerous Chemical (Regulation (EC) No 689/2008) Information:

This substance is not listed in the Annex I Of Regulation (EC) No 689/2008.

### HPV-LPV (High and low Production volume )Information:

LPV Chemical.

### IUCLID & OECD Chemical Data Sheets and Export Files Information:

Not available for this substance.

### European Priority Lists and Risk Assessment (Council Regulation (EEC)No 793/93)

#### Information:

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risk of existing substances).





## 16. REGULATORY INFORMATION

### Hazard Symbol and Danger Signs

Xn: Harmful

### Full text of R- H- and EUH - phrases:

Acute Tox. 4 (oral) Acute toxicity (oral), Category 4

### Risk Phrases

R20/22 Harmful if swallowod

R36/37/39 Irritating to eyes, respiratory system and skin.

R51/53 Could harm water organisms and cause negative effects in the long trem.

### Safety Phrases

S4 In case of an accident consult doctor if symptoms persist.

S28 After contact with skin, wash immediately with plenty of water

S37 Wear suitable gloves.

### Safety Phrases (cont)

S45 In case of accident or if you feel unwell, seek medical advice immediately(show the label where possible).

S45 Obtain information before use.

N: Dangerous for the environment

H302: Harmful if swallowed

H319: Causes serious eye irritation

Wear suitable protective clothing, gloves and/ face protection

