SAFETY DATA SHEET
HYDRASOLV

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME	:	HYDRASOLV
SYNONYMS	:	Product is a mixture: No synonyms are available.
PRODUCT USE	:	Moderately Alkaline Material
SUPPLIER	:	HYDRAMASTER CORP.
SUPPLIER'S ADDRESS	:	11015 47TH AVE W, MUKILTEO, WA 98275 (425) 776-7272
EMERGENCY RESPONSE PHONE	:	PERS: 1-800-633-8253

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS U.S. – CLASSIFICATION	:	H302	Harmful if swallowed.
		H315	Causes skin irritation
		H319	Causes serious eye irritation

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :

SIGNAL WORD	:	WARNING	
HAZARD STATEMENTS (GHS-US)	:		Not established
	:	H302	Harmful if swallowed.
	:	H315	Causes skin irritation.
	:	H319	Causes serious eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US)	:	P101	If medical advice is needed, have product container or label at hand.
	:	P102	Keep out of reach of children.
	:	P103	Read label before use.
	:	P264	Wash skin and contaminated clothing thoroughly after handling.
	:	P270	Do not eat, drink or smoke when using this product.
	:	P280	Wear suitable protective gloves/protective clothing/eye protection/face protection.
	:	P301+ P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	:	P302+P352	: IF ON SKIN: Wash with plenty of soap and water.
	:	P305+351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	:	P332+P313	If skin irritation occurs: Get medical advice/attention.
	:	P337+P313	If eye irritation persists: Get medical advice/attention.
	:	P501	Dispose of contents/container in accordance with local/regional/national/international regulations

CLASSIFICATION SYSTEM	:	NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA RATINGS (SCALE 0-4)	:	Health = 2, Fire = 0, Reactivity = 0
HMIS RATINGS (SCALE 0-5)	:	Health = 2, Fire = 0, Reactivity = 0

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HYDRASOLV

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EINECS #	GHS CLASSIFICATION
Sodium Metasilicate	1-5	6834-92-0	229-912-9	Skin Corr: Cat 1C, Eye Corr. Cat 1
Tetrapotassium Pyrophosphate	1-5	7320-34-5	230-785-7	Not Established
Sodium Xylene Sulfonate	1-5	1300-72-7	215-090-9	Skin Irrit Cat 2, Eye Irrit Cat 2A
Ethylene Glycol Monobutyl Ether	10-20	111-76-2	203-905-0	Acute Oral Tox Cat 4, Eye Irrit Cat 2A, Skin Irrit Cat 2
Methyl-oxirane polymer with oxirane	1-5	9003-11-6	Not Found	Not classified according to GHS criteria for this product.

Irrit. = Irritation, Corr. = Corrosion, Cat. = Category, Dam = Damage, Tox = Toxic, STOT SE = Single Target Organ Toxicity Single exposure.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label where possible.

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION : Remove to fresh air. Get immediate medical attention.

OTHER INSTRUCTIONS : Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, foam, water or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND EXPLOSION HAZARDS : No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PROCEDURES : Keep spilled material away from sewage/drainage systems and waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an

appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE : Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.


SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Sodium Metasilicate	8hr Recommended: 3mg/m^3	Not Established	Not Established
Tetrapotassium Pyrophosphate	2.5mg/m^3	2.5 mg/m^3	7.6 mg/m^3
Sodium Xylene Sulfonate	Not Established	Not Established	Not Established
Ethylene Glycol Monobutyl Ether (EB)	50 ppm	20 ppm	Not Established
Methyl-oxirane polymer with oxirane	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.

SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION : Ensure adequate ventilation.

ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear colorless liquid with mild odor.

ODOR : Mild odor.

ODOR THRESHOLD : Not available

PH : 11.6-12.0 As is

MELTING POINT/FREEZING POINT : Not available

BOILING POINT : Approx. 212°

FLASH POINT : > 200° F.

EVAPORATION RATE : Not available

FLAMMABILITY	:	Non flammable-Non combustible
LOWER FLAMMABILITY LIMIT	:	Not available
UPPER FLAMMABILITY LIMIT	:	Not available
VAPOR PRESSURE	:	Not available
VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DESNITY	:	1.03
SOLUBILITY IN WATER	:	Soluble in water
PARTITION COEFFICIENT n-OCTANOL/WATER	:	Not available
AUTOIGNITION TEMPERATURE	:	Not available
DECOMPOSITION TEMPERATURE	:	Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	:	Stable under recommended storage conditions.
HAZARDOUS CONDITONS TO AVOID	:	No decomposition if used according to specifications
INCOMPATIBLE MATERIALS	:	Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	:	No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	**Sodium Metasilicate**
ACUTE TOXICITY	:	LD50 Oral: 1280mg/kg (Rat), 2400mg/kg (mouse)
CHRONIC TOXICITY	:	No data were available regarding chronic exposure, reproductive or teratological effects, or carcinogenicity for sodium metasilicate.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
TOXICOLOGICAL INFORMATION	:	**Tetrapotassium Pyrophosphate**
ACUTE TOXICITY	:	Oral - rat LD50: > 2980 mg/kg; slightly toxic Dermal - rabbit LD50: > 7940 mg/kg; practically nontoxic Eye Irritation - rabbit: 11.1/110.0; moderately irritating Skin Irritation - rabbit: 0.5/8.0 (24-hr exposure); practically nonirritating.
TOXICOLOGICAL INFORMATION	:	**Sodium Xylene Sulfonate**
ROUTES OF ENTRY	:	Absorbed through skin and/or eye contact.
ACUTE TOXICITY	:	LD50 Oral (rat): 2500 mg/kg,
CHRONIC EFFECTS ON HUMANS	:	Contains material which may cause damage to the following organs: liver
SPECIAL REMARKS ON TOXICITY TO ANIMALS	:	TDL (rat): Route: skin; Dose: 3380 mg/kg/17D intermittent; Toxic effects: changes in liver weight TDL (rat): Route: skin; Dose: 35 gm/kg/14W intermittent; Toxic effects: dermatitis, other (skin and appendages). (Sodium Xylene Sulfonate).
TOXICOLOGICAL INFORMATION	:	**Ethylene Glycol Monobutyl Ether**
ACUTE ORALTOXICITY	:	LD50 Oral: 1,414 mg/kg Species: guinea pig Remarks: Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. LD50 Oral (rat): 1746 mg/kg.
ACUTE INHALATION TOXICITY	:	LC50: ~ 932 ppm Exposure time: 4 HOURS Species: guinea pig Remarks: Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. LC50 Inhalation (rat) 7hr: ~ 700 ppm.
ACUTE DERMAL TOXICITY	:	LD50: > 2,000 mg/kg Species: guinea pig Remarks: Minimal hazard by skin contact

with liquid or vapor. This material may be absorbed through the skin. High dermal doses (most likely achieved from exposure to undiluted liquid) may cause weakness, headache and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

IRRITATION : Skin: Repeated or prolonged contact may cause skin irritation.
Eyes: Moderate to severe eye irritant.

SENSITISATION : Did not cause sensitization on lab animals.

CARCINOGENICITY : No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.

TOXICOLOGICAL INFORMATION : **Methyl-oxirane polymer with oxirane**

ACUTE ORAL TOXICITY : LD50 Oral (rat): > 2000 mg/kg, LD50 Dermal (rabbit): 10,200 mg/kg

SKIN AND EYE IRRITATION : Draize Test: Eyes: Non irritant, Skin: Non irritant.

SENSITISATION : Skin sensitizing effects were not observed in animal studies.

SYMPTOMS OF EXPOSURE : No significant symptoms are expected due to the non-classification of the product.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : **Sodium Metasilicate**

ECOTOXICITY (Aquatic Toxicity) : This material has exhibited moderate toxicity to aquatic organisms.

BIODEGRADATION : This material is inorganic and not subject to biodegradation.

PERSISTENCE : This material is believed to persist in the environment.

BIOCONCENTRATION : This material is not expected to bio-concentrate in organisms.

ECOLOGICAL INFORMATION : **Tetrapotassium Pyrophosphate**

ECOTOXICITY : 48-hr EC50 Daphnia magna: > 100 mg/l, Practically Nontoxic
96-hr LC50 Mysid Shrimp > 100 mg/l, Practically Nontoxic
96-hr LC50 Rainbow trout: > 100 mg/l, Practically Nontoxic.

ENVIRONMENTAL FATE : Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.

ECOLOGICAL INFORMATION : **Sodium Xylene Sulfonate**

ECOTOXICITY : Not available

BOD5 AND COD : Not available

PRODUCTS OF BIODEGRADATION : Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION : : The product itself and its products of degradation are not toxic.

ECOLOGICAL INFORMATION : **Ethylene Glycol Monobutyl Ether (EB)**

ECOTOXICITY : **Fish:** 96h LC50:>100 mg/L (Oryzias latipes)
Crustacea: 48h EC50:>1000 mg/L (Daphnia magna)
Algae: 72h EC50:630 mg/L (Selenastrum capricornutum)

PERSISTENCE AND DEGRADABILITY : 96.0% (by BOD), 96.0% (by TOC), 100% (by GC).

MOBILITY IN SOIL : No data available.

ECOLOGICAL INFORMATION : **Methyl-oxirane polymer with oxirane**

ECOTOXICITY	:	Toxicity to fish: LC50 (96 h) 105 mg/l, Oncorhynchus mykiss Aquatic invertebrates: EC50 (48 h) 1,033 mg/l, Daphnia magna Aquatic plants: EC50 (72 h) 370 mg/l, algae
PERSISTENCE AND BIODEGRADABILITY	:	Assessment: Readily biodegradable (according to OECD criteria)
MOBILITY	:	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	:	This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	Not Hazardous
HAZARD CLASS AND LABEL	:	Not Applicable.
UN NUMBER	:	Not Applicable.
PACKAGING GROUP	:	Not Applicable.
EPA REPORTABLE QUANTITY (RQ)	:	Not Applicable.
MARINE POLLUTANT	:	Not listed.
EMERGENCY RESPONSE GUIDE	:	Not Applicable.

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION: See Section 2 for GHS Hazard Information

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed.
TSCA STATUS	:	The ingredients of this product are listed in TSCA inventory (40CFR 710.)
SARA SECTION 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA SECTION 312	:	None listed.
SARA SECTION 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
NFPA HEALTH	:	2
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	Non Hazardous
DSD/DPD RISK (R) PHRASES	:	R22: Harmful is swallowed. R36/38: Irritating to eyes and skin.
DSD/DPD SAFETY (S) PHRASES	:	S1/2: Keep locked up and out of reach of children. S24/25: Avoid contact with eyes and skin. S26: In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S62: If swallowed, do not induce vomiting.
S64: If swallowed, rinse mouth with water if victim is conscious.

DSD/DPD HAZARD SYMBOL : Xi: Irritant

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY : D2B: Materials that cause other toxic effects (TOXIC).
DOMESTIC SUBSTANCES LIST (DSL) : Listed
INGREDIENT DISCLOSURE LIST : Listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be realiable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Hydramaster Corp. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS : European Inventory of Existing Commercial Chemical Substances
IMDG : International Maritime Code for Dangerous Goods
IARC : International Agency for Research on Cancer
IATA : International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
NFPA : National Fire Protection Association (USA)
NTP : National Toxicology Program
SARA : Superfund Amendments and Reauthorization Act
TSCA : Toxic Substances Control Act
HMIS : Hazardous Materials Identification System (USA)
WHMIS : Workplace Hazardous Materials Information System
LC50 : Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
STOT : Systemic Target Organ Toxicity
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