

SAFETY DATA SHEET

HYDRA-CLEAN

Sodium Tripolyphosphate	1-5	7758-29-4	231-838-7	Skin & Inhalation Irrit. Cat 4
Tetrapotassium Pyrophosphate	1-5	7320-34-5	230-785-7	
Acrylic Polymer	5-10	Proprietary	Not Established	Not Established Not Established

Irrit. = Irritation, Corr. = Corrosion, Cat. = Category

SECTION 4 – FIRST AID MEASURES

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.

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.

OTHER INSTRUCTIONS:..... 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

AND EMERGENCY PROCEDURES:... Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PRECAUTIONS: . 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: Wear proper protective equipment.

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.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
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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
Ethylene Glycol Monobutyl Ether	50 ppm	20 ppm	Not Established
Sodium Tripolyphosphate	Not Established	Not Established	Not Established
Tetrapotassium Pyrophosphate	Not Established	Not Established	Not Established
Acrylic Polymer	Not Established	Not Established	Not Established

EYE PROTECTION: Chemical splash goggles or safety glasses.

SKIN PROTECTION: Minimize contact with product. Wear chemical resistant gloves.

RESPIRATORY PROTECTION: Brief exposure should not require respiratory filter device.

VENTILATION:..... Adequate ventilation is recommended.

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 amber liquid with pleasant odor.

ODOR: Mild odor.

ODOR THRESHOLD:..... Not Available

pH: 9.0 - 9.5

MELTING POINT/FREEZING POINT: Not available

BOILING POINT: Not available

FLASHPOINT: Not applicable

EVAPORATION RATE:..... Not Available

FLAMMABILITY:..... Non flammable, non combustible

LOWER FLAMMABILITY LIMIT: Not applicable

UPPER FLAMMABILITY LIMIT: Not applicable

VAPOR PRESSURE: Not Available

VAPOR DENSITY (AIR=1): Not determined

RELATIVE DENSITY: 1.07

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
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STABILITY: Stable under recommended storage conditions.

HAZARDOUS CONDITIONS TO AVOID: No decomposition if used according to specifications.

INCOMPATIBLE MATERIALS: Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

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SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:... Ethylene Glycol Butyl Ether:

ACUTE TOXICITY: LD50 values: Oral LD50: 470 mg/kg (rat). LC50 dermal: 220 (rabbit). Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.

CHRONIC EFFECTS ON HUMANS:... **MUTAGENIC EFFECTS:** Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, liver, central nervous system (CNS).

OTHER TOXIC EFFECTS ON HUMANS: Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

TOXICOLOGICAL INFORMATION:... Sodium Tripolyphosphate

ACUTE TOXICITY: Oral - rat LD50 - 5,400 mg/kg; practically non-toxic
Dermal - rabbit LD50 - > 7,940 mg/kg; practically non-toxic
Eye Irritation - rabbit - 3.3/110.0; slightly irritating
Skin Irritation - rabbit - 0-0/8.0 (24-hr exp.); not irritating
Inhalation - LC50 > 0.39 mg/L (rat, 4 hr) (maximum attainable concentration)

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.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ethylene Glycol Butyl Ether:

ECOTOXICITY (aquatic and terrestrial, where available): 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 products of degradation are less toxic than the product itself.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: Not available

ECOLOGICAL INFORMATION: Sodium Tripolyphosphate

ECOTOXICITY: Invertebrate: 48-hr LC50 Daphnia magna: > 1000 mg/L; Practically Nontoxic 96 hr. LC 50 > 100 mg/L, non-toxic (Rainbow trout, Inland silversides and mysid schrimp). [FMC I89-1081, 1082 & 1083] 48 hr. LC 50 > 100 mg/L, non-toxic (Daphnia magna) [FMC I89-1084]

PERSISTENCE and DEGRADABILITY: No data available.

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

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oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.

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:

CLASSIFICATION: Eye Irritant: Category 2B, Skin Irritant: Category 2, Inhalation Irritant: N/A.

SIGNAL WORD: Warning

H STATEMENTS:..... H302: Harmful if swallowed.

H313: May be harmful in contact with skin.

H320: Causes eye irritation.

P STATEMENTS: 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.

P281: Use personal protective equipment as required.

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+P351+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.

P362: Take off contaminated clothing.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARD PICTOGRAMS:.....



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U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN:..... Not listed.
TSCA STATUS: The ingredients of this product are listed on TSCA inventory (40CFR 710.)
SARA SECTION 302: None
SARA SECTION 312: Acute health hazard.
SARA SECTION 313: Not listed
NFPA HEALTH: 1
NFPA FLAMMABILITY:..... 0
NFPA REACTIVITY: 0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION:..... Non Hazardous
DSD/DPD RISK (R) PHRASES: R22: Harmful if swallowed.
R36/38: Irritating to eyes and skin.
DSD/DPD SAFETY (S) PHRASES: 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.
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: Exclamation Mark

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY: CLASS D-2B: Material causing other toxic effects (TOXIC).
DOMESTIC SUBSTANCES LIST (DSL): Listed
INGREDIENT DISCLOSURE LIST: Listed



SECTION 16 – OTHER INFORMATION

REFERENCES: The information contained herein has been compiled from sources believed to be reliable 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 if reasonable safety procedures are not adhered to. 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.

FOOT NOTES:

IMDG:..... International Maritime Code for Dangerous Goods
DOT:..... US Department of Transportation
IATA: International Air Transportation Association
ACGIH:..... American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50:..... Lethal dose, 50 percent

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TOST:.....Target Organ Systemic Toxicity

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