

SAFETY DATA SHEET

1. Identification

Product identifier	MARINER
Other means of identification	
SDS number	545N-18A
Product code	HIL00702
Recommended use	Bathroom Cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Manufacturer	
Company name	HILLYARD INDUSTRIES
Address	302 North Fourth St.
	St. Joseph, MO 64501
Contact person	Regulatory Affairs
Telephone number	(816) 233-1321 (Ext. 8285)
Fax	(816) 383-8485
E-mail	regulatoryaffairs@hillyard.com
Emergency telephone #	(800) 424-9300
	(Only in the event of chemical emergency involving a spill, leak, fire, exposure, or accident involving chemicals.)

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Harmful if swallowed. Causes severe skin burn Harmful to aquatic life. Harmful to aquatic life	ns and eye damage. Causes serious eye damage. with long lasting effects.
Precautionary statement		
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention. If	

Response If swallowed: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.
Storage Store locked up.

Supplemental information

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise None known. classified (HNOC)

Do not get in eyes, on skin, or on clothing. Use With Adequate Ventilation. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Personal Protective Equipment: When there is a danger of contact with the concentrate, use chemical safety goggles, impervious gloves, and protective clothing. Do not take internally. Keep container closed when not in use.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PHOSPHORIC ACID		7664-38-2	10 - < 20
1-Butoxy-2-propanol		5131-66-8	5 - < 10
Citric Acid		77-92-9	5 - < 10
Alcohols (C12-15 In, Saturated) Ethoxylate		68131-39-5	3 - < 5
Alcohols, C9-11, ethoxylated		68439-46-3	3 - < 5
Other components below reportable lev	rels		60 - < 70

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	This product is miscible in water. Should not be released into the environment.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Appropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates	Components	for Air Contaminants (29 CFR 1910.1 Type	Value	
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	Other			
Thermal hazards Wear appropriate thermal protective clothing, when necessary.	Respiratory protection	In case of insufficient ventilation, wea	ar suitable respiratory equipment.	
	Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Clear, blue liquid
Physical state	Liquid.
Form	Liquid.
Color	Blue
Odor	Floral fragrance
Odor threshold	Not available
рН	1 - 1.5
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling range	208 °F (97.78 °C)
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	< 1 (ethyl ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	16.99 mm Hg
Vapor density	1.32 AIR=1
Relative density	1.095 at 77°F
Solubility(ies)	
Solubility (water)	100 % Complete
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	9.12 lb/gal
Percent volatile	69 - 70 %
VOC (Weight %)	9.83 % (conc.)

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.			
Product	Species	Test Results		
MARINER				
Acute				
Dermal				
LD50	Rabbit	17992.4785 mg/kg estimated		
Oral				
LD50	Mouse	42932.2773 mg/kg estimated		
	Rabbit	20120 g/kg estimated		
	Rat	10311.1709 mg/kg estimated		
Components	Species	Test Results		
PHOSPHORIC ACID (CAS 7664-	-38-2)			
Acute				
Dermal				
LD50	Rabbit	2740 mg/kg		
Oral				
LD50	Rat	1530 mg/kg		
* Estimates for product may I	be based on additional component data no	ot shown.		
Skin corrosion/irritation	Causes severe skin burns and eye dar			
Serious eye damage/eye irritation	Causes serious eye damage.			
Respiratory or skin sensitizatio	on			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause s	skin sensitization.		
Germ cell mutagenicity	No data available to indicate product o mutagenic or genotoxic.	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
US. OSHA Specifically Reg Not listed.	ulated Substances (29 CFR 1910.1001-	1050)		
Reproductive toxicity	This product is not expected to cause r	eproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Prolonged inhalation may be harmful.			
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological informatio	n			
Ecotoxicity	Harmful to aquatic life with long lasting	effects. Because of the low pH of this product, it would be city upon exposure to aquatic organisms and aquatic		
Product	Species	Test Results		

Product		Species	Test Results
MARINER			
Aquatic			
Crustacea	EC50	Daphnia	94.9132 mg/l, 48 hours estimated
Fish	LC50	Fish	131.4626 mg/l, 96 hours estimated

Components		Species	Test Results
Alcohols (C12-15 In, Saturate	ed) Ethoxylate	(CAS 68131-39-5)	
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.37 - 0.43 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	1.04 - 1.39 mg/l, 96 hours
Alcohols, C9-11, ethoxylated	(CAS 68439-4	46-3)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/l, 96 hours
* Estimates for product may	be based on a	dditional component data not shown.	
rsistence and degradability	No data is a	available on the degradability of this product.	
baccumulative potential			
bility in soil	No data available.		
ner adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
. Disposal consideratio	ons		
sposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose in	accordance with all applicable regulations.	
zardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
iste from residues / unused oducts	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
ntaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.		

14. Transport information

DOT

UN number	UN3264	
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, n.o.s. (PHOSPHORIC ACID)	
Transport hazard class(es)		
Class	8	
Subsidiary risk	-	
Label(s)	8	
Packing group	III	
Special precautions for user	r Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	IB3, T7, TP1, TP28	
Packaging exceptions	154	
Packaging non bulk	202	
Packaging bulk	241	

DOT



PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY OR ORM-D This material is regulated under IATA and IMDG regulations contact manufacturer for shipping instructions.

15. Regulatory information

15. Regulatory information	า	
US federal regulations	Standard, 29 CFR 19	zardous Chemical" as defined by the OSHA Hazard Communication 10.1200. n the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Not regulated.	Notification (40 CFR 7	07, Subpt. D)
CERCLA Hazardous Substa	nce List (40 CFR 302.	4)
PHOSPHORIC ACID (CA SARA 304 Emergency relea	NS 7664-38-2)	Listed.
Not regulated. US. OSHA Specifically Regu	lated Substances (29	CFR 1910.1001-1050)
Not listed.		
Superfund Amendments and Re	authorization Act of '	986 (SARA)
Hazard categories	Immediate Hazard - Delayed Hazard - No Fire Hazard - No Pressure Hazard - N Reactivity Hazard - N	
SARA 302 Extremely hazard Not listed.	lous substance	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
-	Ibstances CA Depart	nent of Justice (California Health and Safety Code Section 11100)
Not listed.		
US. Massachusetts RTK - S	ubstance List	
PHOSPHORIC ACID (CA	NS 7664-38-2)	
US. New Jersey Worker and		Know Act
PHOSPHORIC ACID (CA	,	<i>и</i> .
US. Pennsylvania Worker a		o-Know Law
PHOSPHORIC ACID (CA US. Rhode Island RTK	(5 /004-38-2)	
PHOSPHORIC ACID (CA	S 7664-38-2)	
US. California Proposition 6	,	
	Vater and Toxic Enford	ement Act of 1986 (Proposition 65): This material is not known to contain reproductive toxins.
International Inventories		
Country(s) or region United States & Puerto Rico	Inventory name Toxic Substances Co	ntrol Act (TSCA) Inventory Yes
*A "Yes" indicates that all compor	nents of this product comp	ly with the inventory requirements administered by the governing country(s) ct are not listed or exempt from listing on the inventory administered by the governing
16. Other information, incl	uding date of pre	paration or last revision
Issue date	02-13-2015	
Version #	01	
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0	

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.