MATERIAL SAFETY DATA SHEET



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Leisure Time Free

1. Product And Company Identification					
Supplier Leisure Time 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999	Manufacturer Mareva, Inc. 1119 Cavalier Boulevard Chesapeake, VA 23323 Telephone Number: (757) 558-1000				
FAX Number: (770) 521-5959 Web Site: www.poolspacare.com					
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	<u>Manufacturer Emergency Contacts & Phone Number</u> None Given				
Issue Date: 02/24/2005 Product Name: Leisure Time Free Chemical Name: PHMB EPA Registry Number: 69461-1 MSDS Number: 336					
2. Composition/Information On Ingredients					
Ingredient Name		CAS Number		Percent Of TotalWeight	
POLY(HEXAMETHYLENE BIGUANIDE HYDROCHLORIDE) 91403-50-8 Ingredients listed in this section have been determined to be hazardous as defined in 29 CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).					
Hazards Identification (Pictograms)					
3. Hazards Identification					
Eye Hazards The concentrated material induced severe irritation in rabbit eye studies, but dilution of 5% or less were non-irritating.					
Skin Hazards A 10% solution of the material induced skin sensitization in human patch tests. Dermatitis and allergic skin reactions can develop on human skin after repeated/prolonged contact with 10% solution or with higher concentration of this material. Relative to other materials, this product is practically non-toxic by skin penetration. Systematically concentrations are unlikely to be absorbed through the skin in man.					
Ingestion Hazards Relative to other materials, a single dose of this product is slightly toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach may develop following ingestion.					

Inhalation Hazards

This product does not pose a vapor inhalation hazard, but repeated and/or prolonged aerosol exposures are potentially hazardous. Rats exposed to 0.25 mg/m3 as an aerosol for six hours per day, 5 days per week, for three weeks, developed methemoglobinemia, eye and respiratory irritation and pnemonitis.

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3. Hazards Identification - Continued

Inhalation Hazards - Continued

No adverse respiratory effects were observed at 0.025 mg/m3 in air. The effects were more severe at higher concentrations. If aerosol exposure is limited and good industrial hygiene is practiced, the potential hazards associated with aerosol exposure will not be expressed.

The symptoms of methemoglobinemia includes cyanosis (blue-tinged skin), euphoria, headache, flushed face, light-headedness, ataxis, weakness, rapid heart beat, labored breathing, nausea, vomiting and mental confusion. Hypertension, blindness, liver and kidney injury can result after extreme exposure.

First Aid (Pictograms)



4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Consult Physician

<u>Skin</u>

In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately if irritation (redness, itching, burning) develops.

Ingestion

DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer victim to medical personnel. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: N/A °F Flammability Class: N/A

Fire And Explosion Hazards

None known

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Instructions

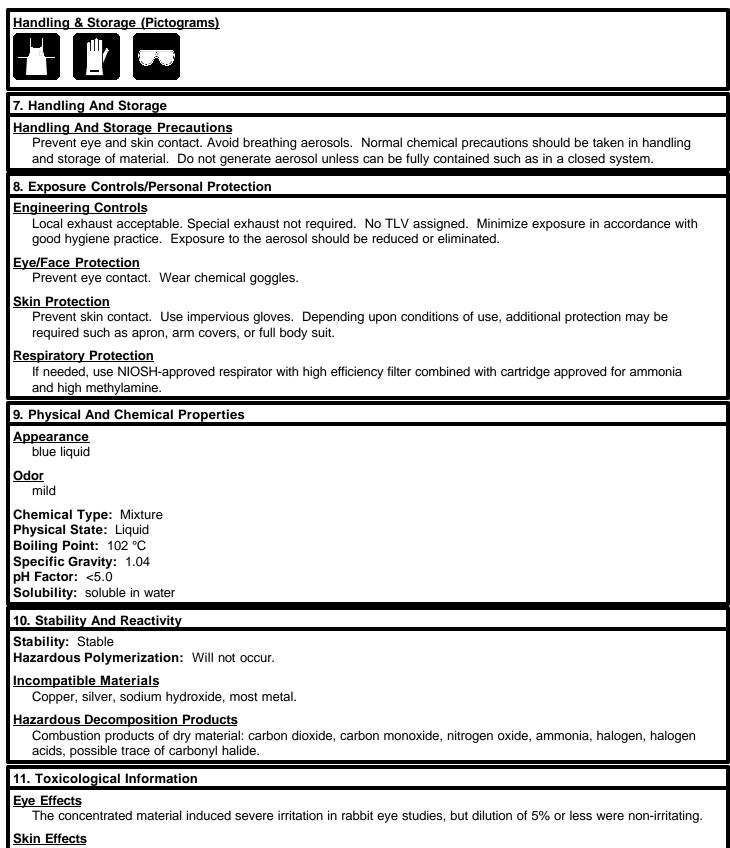
Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Wear skin, eye, and respiratory protection during cleanup. Contain spill and keep out of sewers and drains. Soak up liquid with absorbant and shovel into waste container. Cover container and remove from work area.

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This concentrated material induced moderate skin irritation in a 24-hour rabbit dermal irritation test. Dilution of 5% or less were not irritating on rat skin. The acute dermal LD 50 in rabbit is greater than 2 mg/kg in rabbits.

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11. Toxicological Information - Continued

Acute Oral Effects

The acute oral LD 50 in rat is 2.5 - 2.7 g/kg.

Acute Inhalation Effects

This product does not pose a vapor inhalation hazard, but repeated and/or prolonged aerosol exposures are potentially hazardous. Rats exposed to 0.25 mg/m3 as an aerosol for six hours per day, 5 days per week, for three weeks, developed methemoglobinemia, eye and respiratory irritation and pnemonitis.

Conditions Aggravated By Overexposure

PHMB, the active ingredient in this product, when administered to mice at very high doses, induced an increased incidence of cancer in mice. Under the conditions of anticipated use of this product, PHMB does not represent a risk to man.

Ecological (Pictograms)



12. Ecological Information

Ecotoxicological Information This product is toxic to fish.

13. Disposal Considerations

Discarded product is not a hazardous waste under RCRA, 40 CFR 261. This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of waste. To deactivate this material, adjust pH of solution to 6.8-7.0. Add 5% solution of sodium hypochlorite (household bleach), 5 parts sodium hypochlorite solution to one part product. Let stand for 48 hours. Dilute deactivated solution with plenty of water and discharge to a sewer serviced by a wastewater treatment facility.

Empty container retains product residue. Observe all hazards precautions. Do not distribute, make available, furnish, or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal.

RCRA Information

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

14. Transport Information

Proper Shipping Name

Not regulated

Hazard Class

Not regulated

DOT Identification Number NONE

15. Regulatory Information

U.S. Regulatory Information

All ingredients are on the TSCA Chemical Substance Inventory. (Toxic Substances Control Act), Regulation, 40 CFR 710.

SARA Section 313 Notification

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313. (Regulation, 40 CFR 355, 370 and 372).

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16. Other Inform <u>Revision/Prepa</u> MSDS Preparer	rer Information
Disclaimer	
and make no and assume or for the co	asonable care has been taken in the preparation of this document, we extend no warranties o representations as to the accuracy or completeness of the information contained therein, no responsibility regarding the suitablility of this information for the user's intended purposes nsequences of its use. Each individual should make a determination as to the suitability of ion for their particular purposes(s).
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