

# SMARTPOOL, INC.

**MSDS:** AP20106  
**Date:** 9/30/2005  
**Supersedes:** 8/22/2005

## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** AQUAPILL 2 CLARIFIER PLUS  
**Synonyms:** None  
**Chemical Family:** Cationic polyamine  
**Molecular Formula:** Mixture  
**Molecular Weight:** Mixture

SMARTPOOL, INC., 687 PROSPECT STREET, LAKEWOOD, NEW JERSEY 08701, USA  
For product information call 1-888-560-7665  
Outside the USA and Canada call 1-732-730-9880  
**EMERGENCY PHONE-** for emergency involving spill, leak, fire, exposure or accident  
Call CHEMTREC: 1-800-424-9300. Outside the USA and Canada call 1-703-527-3887

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### OSHA REGULATED COMPONENTS

No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### APPEARANCE AND ODOR:

**Color:** colorless to amber  
**Appearance:** liquid  
**Odor:** amine

##### STATEMENTS OF HAZARD:

IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY

#### POTENTIAL HEALTH EFFECTS

##### EFFECTS OF EXPOSURE:

The acute oral (rat) LD50 and dermal (rabbit) LD50 values are estimated to be 5,360 mg/kg and 16,000 mg/kg, respectively. No skin or eye irritations were produced during primary irritation studies with rabbits.

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## 4. FIRST AID MEASURES

**Ingestion:**

Material is not expected to be harmful by ingestion. No specific first aid measures are required.

**Skin Contact:**

Wash immediately with plenty of water and soap.

**Eye Contact:**

Rinse immediately with plenty of water for at least 15 minutes.

**Inhalation:**

Material is not expected to be harmful if inhaled. Remove to fresh air.

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## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:**

Use water spray, carbon dioxide or dry chemical.

**Protective Equipment:**

Firefighters, and others exposed, wear self-contained breathing apparatus.

**Special Hazards:**

Keep containers cool by spraying with water if exposed to fire.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

**Methods For Cleaning Up:**

Product may cause a slip hazard. Spilled material should be absorbed onto an inert material and scooped up. Flush spill area thoroughly with water and scrub to remove residue. If slipperiness remains apply more dry-sweeping compound.

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## 7. HANDLING AND STORAGE

**HANDLING**

**Precautionary Measures:** Spills should be scooped up or wiped up immediately, and the spill area flushed with water.

**Special Handling Statements:** None

**STORAGE**

To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

**Storage Temperature:** Room temperature

**Reason:** Integrity.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:**

Engineering controls are not necessary if good hygiene practices are followed.

**Respiratory Protection:**

None recommended

**Eye Protection:**

Wear eye/face protection.

**Skin Protection:**

Wear suitable protective clothing.

**Additional Advice:**

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	colorless to amber
<b>Appearance:</b>	Liquid
<b>Odor:</b>	amine
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Vapor Pressure:</b>	Not available
<b>Specific Gravity:</b>	1.14 - 1.18
<b>Vapor Density:</b>	Not available
<b>Percent Volatile (% by wt.):</b>	50
<b>pH:</b>	4.0 - 7.0
<b>Saturation In Air (% By Vol.):</b>	Not applicable
<b>Evaporation Rate:</b>	Not available
<b>Solubility In Water:</b>	Complete
<b>Volatile Organic Content:</b>	Not available
<b>Flash Point:</b>	>93 °C 200 °F Closed Cup
<b>Flammable Limits (% By Vol):</b>	Not available
<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Partition coefficient (noctanol/ water):</b>	Not available
<b>Odor Threshold:</b>	Not available

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions To Avoid:</b>	None known
<b>Polymerization:</b>	Will not occur
<b>Conditions To Avoid:</b>	None known
<b>Materials To Avoid:</b>	Do not use aluminum, copper, or iron in feed of storage system. Strong oxidizers, acids.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide Carbon dioxide Ammonia Oxides of nitrogen Hydrogen chloride

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## 11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the regulated components of this product is as follows:

This product contains no OSHA regulated (hazardous) components.

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## 12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. No adverse environmental effects are expected with proper use and disposal of this product. All ecological information provided was conducted on a structurally similar product. Acute toxicity tests conducted using environmentally representative water gave the following results:

### ALGAE TEST RESULTS

**Test:** Growth Inhibition (OECD 201)  
**Duration:** 72 hr  
**Species:** Green Algae (*Selenastrum capricornutum*)

### FISH TEST RESULTS

**Test:** Acute toxicity, freshwater (OECD 203)  
**Species:** Zebra Fish (*Brachydanio rerio*)

### INVERTEBRATE TEST RESULTS

**Test:** Acute Immobilization (OECD 202)  
**Species:** Water Flea (*Daphnia magna*)

## DEGRADATION

**Test:** CO2 Evolution: Modified Sturm (OECD 301B)

IC50

>10 - 100 mg/l

**Duration:** 48 hr

LC50

**Duration:** 28 day **Procedure:** Ready biodegradability

<70 %

>10 - 100 mg/l

>10 - 100 mg/l

**Duration:** 96 hr.

EC50

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## 13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Smartpool, Inc. product as supplied. If the material has been altered, or has it exceeded recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 etseq) is dependent upon whether a material is a RCRA `listed hazardous waste or has any of the four RCRA `hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA `listed hazardous waste`; information contained in Section 15 of this MSDS is not intended to indicate if the product is a `listed hazardous waste.` RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also, apply to the classification of the material if it is to be disposed. Smart pool, inc. encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Smart pool, inc., recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Smartpool, Inc. has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

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## 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

### US DOT

Proper shipping name: Not applicable/Not regulated

Hazardous Substances:

Not applicable

### TRANSPORT CANADA

**ICAO / IATA** Proper Shipping Name: Not applicable/Not regulated

Proper Shipping Name: Not applicable/Not regulated  
Packing Instructions/Maximum Net Per Package: net quantity per package.  
Passenger Aircraft: -  
Cargo Aircraft: -

**IMO**

Proper Shipping Name: Not applicable/Not regulated

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## 15. REGULATORY INFORMATION

### INVENTORY INFORMATION

**United States (USA):** All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.

**Canada:** Components of this product have been reported to Environment Canada in accordance with Sections 66 and/or 81 of the Canadian Environmental Protection Act (1999), and are included on the Domestic Substances List.

**European Union (EU):** All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

**Australia:** All components of this product are included in the Australian Inventory of Chemical Substances (AICS).

**China:** All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

**Japan:** All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

**Korea:** All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

**Philippines:** All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

### OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of ERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

This product does not contain any components regulated under these sections of the EPA

### PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA

- Not applicable
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## 16. OTHER INFORMATION

### **NFPA Hazard Rating (National Fire Protection Association)**

Health: 0 - Materials that under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

Fire: 1 - Materials that must be preheated before ignition can occur.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

**Reasons For Issue:** Revised Section 3

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