

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

1. Product And Company Identification			
Supplier Applied Biochemists (WI) A division of Advantis Technologies, Inc. W175 N11163 Stonewood Drive, Suite 234 Germantown, WI 53022 Telephone Number: (262) 255-4449 FAX Number: (262) 255-4268 Web Site: www.appliedbiochemists.com		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT:	
Issue Date: 11/12/2007 Product Name: Phycomycin SCP Chemical Name: Sodium Carbonate Peroxyhydrate CAS Number: 15630-89-4 MSDS Number: 357 Product/Material Uses Maximum use for potable water is 33 mg/L.			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
SODIUM CARBONATE	497-19-8		
SODIUM CARBONATE PEROXYHYDRATE	15630-89-4		
SODIUM METASILICATE	6834-92-0		
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 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).			
EMERGENCY OVERVIEW			
Toxicity effects principally related to its irritating properties. Does not present any significant hazard to the environment. Supports combustion of other substances (oxidizing product).			
Hazards Identification (Pictograms)			
3. Hazards Identification			
Primary Routes(s) Of Entry Inhalation, skin, ingestion Eye Hazards Severe eye irritation, watering, redness; can cause burns to the eyes. Risk of serious or permanent eye lesions.			

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

3. Hazards Identification - Continued

Skin Hazards

Slight irritation.
In case of repeated contact: risk of dermatitis.

Ingestion Hazards

Severe irritation of the mouth, throat, esophagus and stomach.
Bloating of stomach, belching.
Nausea and vomiting.

Inhalation Hazards

Slight nose and throat irritation.
At high concentrations, cough.
In case of repeated or prolonged exposure; risk of sore throat, nosebleeds, and chronic bronchitis.

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 with an ophthalmologist in all cases.

Skin

Wash contaminated area with flowing water. Remove contaminated clothing and wash before reuse. Get medical attention immediately in case of persistent pain or redness.

Ingestion

Call a physician or a poison control center immediately. DO NOT INDUCE VOMITING. If victim is fully conscious, give one or two cups of water to drink. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove to fresh air. Consult Physician in case of respiratory symptoms.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: NA °F NA °C
Autoignition Point: NA °F NA °C
Flammability Class: Non-flammable

Fire And Explosion Hazards

Oxidizer

Extinguishing Media

Large quantities of water, water spray.
In case of fire in close proximity, all means of extinguishing are acceptable.

Fire Fighting Instructions

Specific Hazards:

-Oxygen released on exothermic decomposition may support combustion in case of surrounding fire.

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

5. Fire Fighting Measures - Continued

Fire Fighting Instructions - Continued

- Pressure burst may occur due to decomposition in confined spaces/containers.
- Wet product decomposed exothermally and may cause combustion of organic materials.
- Do not spray the dry product with water, except in case of fire.

Protective measures in case of intervention:

- Evacuate all non-essential personnel.
- Intervention should only be by personnel who are trained and aware of the hazards of the product.

Other Precautions:

If safe to do so, remove the exposed containers.

6. Accidental Release Measures

Precautions:

- Observe protective measures given in sections 5 and 8.
 - Avoid materials and products which are incompatible with the product (See section 10).
- Avoid direct contact of the product with water.

Cleanup methods:

- Collect the product with suitable means, shovel, or sweep, avoiding dust formation.
- All receiving equipment should be clean, dry, vented, labeled and made of materials compatible with the product.
- Do not return spilled or contaminated material to inventory.
- In order to avoid the risk of contamination, the recovered product must not be returned to the original container.
- Clean area with large quantities of water.
- For disposal methods, refer to section 13.

Precautions for protection of the environment:

- Immediately notify the appropriate authorities in case of reportable spill.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

- Clean and dry process and other piping and equipment before using this product.
- Never return unused product to storage container.
- Keep away from incompatible products.
- Containers and equipment used for the peroxide product should be used exclusively for that product.
- Avoid contact with water or humidity.
- For more information, contact the supplier.

Storage Precautions

- Store in a dry area.
- Protect from direct sunlight.
- Store away from heat sources.
- Keep away from incompatible products.
- Store in vented containers.
- Store in temperatures less than 40C (104F).
- Keep in container fitted with safety valve or vent.
- Container must be used exclusively for the product.

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

7. Handling And Storage - Continued

Work/Hygienic Practices

Suitable packaging include: Stainless Steel, PE, Paper and PE, Glass, Passivated Aluminum.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Authorized limit Values TLV ACGIH-USA (2002) OSHA PEL

Particulates not otherwise classified (PNOC)	Inhalable 10 mg/m3		Inhalable 15 mg/m3
	TWA	TWA	
	Respirable 3 mg/m3		Respirable 5 mg/m3
	TWA	TWA	

No specific TLV-STEL (Short Term Exposure Limit) has been set. Excursions in exposure level may exceed 3 times the TLV_TWA for no more than a total of 30 minutes during a workday and under no circumstances should they exceed 5 times the TLV-TWA.

Eye/Face Protection

Wear dustproof goggles.

Skin Protection

For brief contact, few precautions other than clean body-covering clothing should be needed. When prolonged or frequently repeated contact could occur, use protective full-body clothing such as PVC or rubber, impervious to this material.

Protective gloves should be made of PVC, neoprene or rubber.

Respiratory Protection

For many conditions, no respiratory protection may be needed; however in dusty or unknown atmospheres or when exposures exceed limit values, use NIOSH-approved dust respirator.

Other/General Protection

-An eyewash and safety shower should be nearby and ready for use.

-Consult your industrial hygienist or safety manager for the selection of personal protective equipment suitable for the working conditions.

9. Physical And Chemical Properties

Appearance

Granular solid, White.

Odor

None.

Chemical Type: Mixture

Physical State: Solid

Melting Point: NA °F

Boiling Point: NA °F

Vapor Pressure: NA

pH Factor: 10.4-10.6 At a Concentration Of 1% Solution

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

9. Physical And Chemical Properties - Continued

Odor - Continued

Solubility: Water: 140 g/l @ 24C (75F)

Viscosity: NA

10. Stability And Reactivity

Stability: Stable under certain conditions of use with slow gas release

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

-Heat/Sources of heat.

-Moisture.

Incompatible Materials

-Water.

-Acids.

-Bases.

-Salts of Metals.

-Reducing agents.

-Organic materials.

-Flammable substances.

Hazardous Decomposition Products

Oxygen; Decomposition releases steam and heat.

11. Toxicological Information

Eye Effects

Rabbit, Severe damage (eyes)

Skin Effects

Dermal LD50 lo, rabbit, >2000 mg/kg.

Rabbit, slight irritation (skin).

Acute Oral Effects

Oral LD50, rat, 1034 mg/kg.

Acute Inhalation Effects

Inhalation LC50, 1 hour, rat, >4580 mg/m3.

12. Ecological Information

Acute Toxicity - Fish And Invertebrates

Fish, Pimephales promelas; LC50, 70.7 mg/L

Fish, Pimephales promelas; NOEC, 96 hours, 1 mg/L

Crustaceans, Daphnia pulex; EC50, 4.9 mg/L

Crustaceans, Daphnia pulex; NOEC, 48 hours, 1 mg/L

Toxic for aquatic organisms. Nevertheless, hazard for the environment is limited due to product properties:

-No bioaccumulation

-Abiotic degradation

-Low toxicity of degradation products.

13. Disposal Considerations

Waste treatment: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

13. Disposal Considerations - Continued

Packaging Treatment:

Container disposal:

-Fiber drums with liners: Completely empty by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then dispose of liner in sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

-Bags/Plastic Pails: Completely empty container into application equipment. Triple rinse pail and offer for recycling or reconditioning. Containers can also be disposed in a sanitary landfill or by incineration if allowed by state and local authorities. If burned, stay out of smoke.

RCRA Information

Listed as D001 (Ignitable)

14. Transport Information

Proper Shipping Name

Oxidizing solid, n.o.s. (sodium carbonate peroxyhydrate)

Hazard Class

5.1, PGIII

DOT Identification Number

UN1479

DOT (Pictograms)



15. Regulatory Information

SARA Hazard Classes

Fire Hazard

SARA Section 313 Notification

No

Canadian Regulatory Information

WHMIS Classification:

C Oxidizing material.

D2B Poisonous and infectious material - other toxic effects.

NFPA	HMIS								
	<table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>PERSONAL PROTECTION</td><td>X</td></tr></table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	X
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FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	X								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

MATERIAL SAFETY DATA SHEET

Phycomycin SCP

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Applied Biochemists (WI)

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