

# TOLCIDE<sup>®</sup> PS 200

## INDUSTRIAL ANTIMICROBIAL

### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive Causes eye damage and skin irritation. Do not get in eyes on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if inhaled. Avoid breathing vapor. Remove contaminated clothing and wash before reuse. Harmful or fatal if swallowed. Avoid contamination of food.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NYDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer system without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board of Regional Office of the EPA.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal  
**STORAGE:** store this product in a cool dry area away from direct sunlight and heat to avoid deterioration. In case of a spill, flood the area with large quantities of water.

**PESTICIDE DISPOSAL** 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 the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER SYSTEMS** (for control of bacteria, fungi and algae)

Initial Slug Dose: Add 350-1312.5 ppms of TOLCIDE PS 200 (70-362.5ppm THPS)based on total water volume. Repeat until control is obtained. Thereafter add either intermittently 131.25-525 ppm of TOLCIDE PS 200 926-105 PPM THPS) OR Continuously 7-245 ppm of TOLCIDE PS 200 (14-49 ppm THPS)per day. Dirty systems must be cleaned prior to treatment.

**HEAT TRANSFER SYSTEMS** (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Brewery and Other Pasteurizers and Warmers)

Add TOLCIDE PS 200 at the same application rates and in the same manners as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump areas, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

#### ACTIVE INGREDIENT:

Tetrakis(Hydroxymethyl)Phosphonium Sulfate.....20%  
Inert Ingredients.....80%  
TOTAL.....100%

EPA Reg No. 4564-15

EPA Est. 56485\_PA-001

**KEEP OUT OF REACH OF CHILDREN**

## DANGER

### STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush immediately with large amounts of clean, cool water for at least 15 minutes. Get medical attention immediately.

If Swallowed:: Promptly drink large quantities of water. Do not induce vomiting.

Avoid alcohol. Call a physician immediately.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

If on Skin: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. Get Medical Attention.

Prolonged or frequent skin contact may cause allergic reactions in some individuals.

NOTE TO PHYSICIAN. Probable mucosal damage may contraindicate the use of gastric lavage.

See Side Panels for Additional Precautionary Statements

In Case of Emergency call CHEMTREC AT 1-800-424-9300

Manufactured by:

# Rhodia

**RHODIA INC.**

**CN 7500 – 259 PROSPECT PLAINS ROAD  
CRANBURY , NEW JERSEY 08512**

**PRODUCT OF THE UNITED KINGDOM**

**NET CONTENTS: AS MARKED ON  
CONTAINER**

#### DIRECTIONS FOR USE (continued)

**AIR WASHER SYSTEM** (Not for use in California)

For control of bacteria and fungi. Pre-clean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 131.25-350 ppm of TOLCIDE PS200@(25-70 ppm THPS) at a point where uniform mixing and even distribution will occur. Repeat as needed to maintain control.

**PAPER MANUFACTURING** (for control of bacteria fungi and algae. A. for use as a slimicide in the manufacture of paper and paperboard products and adhesives that do not contain food.

**Dosing:** Additions should be made at a point in the system where mixing action is good e.g. raw stock chest beater or mixing unit. Add intermittently or continuously depending on mill conditions.

**Intermitting Dosing:** Add 122.5-1750 ppm of TOLCIDE PS 200 (24.5-350 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.

**Continuous Dosing:** Add 70-245 ppm of TOLCIDE PS 200 (14-49 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.

b) For use as a slimicide in the manufacture of paper and paperboard products that may contact food (Not for use in California)

**Dosing:** Additions should be made at a point in the system where mixing action is good. E.g. raw stock chest beater or mixing well. Add intermittently or continuously depending on mill conditions.

**Intermittent Dosing:** Add 122.5-420 ppm of TOLCIDE PS 200 (24.5-84 ppm THPS)based on total water volume or an equivalent based on dry weight of paper produced. The maximum use concentration of THPS in the slurry cannot exceed 84 ppm.'

**Continuous Dosing:** Add 70-245 ppm of TOLCIDE PS 200 (11-49 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced. The maximum use concentration of THPS in the slurry cannot exceed 84 ppm.

c) for use as a preservative for Alkyl Ketone Diner (AKD) Emulsions (Not for use in California)

This product can be used to prevent bacterial and fungal concentration of AKD emulsions that are applied to food-contact paper and paperboard at the dry end of the paper machine.

**DOSING** Apply from 875-2485 ppm of TOLCIDE PS 200 (175-497 ppm THPS) to the AKD emulsion to be preserved.

Note: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buy assumes all risk and/or handling is contractor to label directions.

*TOLCIDE<sup>®</sup> is a registered trademark held by Rhodia Consumer Specialists Limited.*



## Material Safety Data Sheet

### TOLCIDE PS200

Date Prepared: 9/10/07

Supersedes Date: 2/01/07

#### 1. PRODUCT AND COMPANY DESCRIPTION

RHODIA INC.  
RHODIA NOVECARE  
CN7500  
8 Cedar Brook Drive  
Cranbury NJ 08512-7500

**Emergency Phone Numbers:**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls) or Rhodia CAERS (Communication and Emergency Response System) at 800-916-3232.

**For Product Information:**

(888) 776-7337

**EPA FIFRA Registration Number:**

4564-15

**Chemical Name or Synonym:**

TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE; THPS

**Molecular Formula:**

$2(C_4H_{12}O_4P) \cdot O_4S$

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Reg Number	OSHA Hazard	Percentage
TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE	55566-30-8	Y	~ 20

#### 3. HAZARDS IDENTIFICATION

**A. EMERGENCY OVERVIEW:**

**Physical Appearance and Odor:**

colorless / liquid, characteristic odor.

**Warning Statements:**

DANGER! RISK OF SERIOUS DAMAGE TO EYES. HARMFUL IF INHALED. MAY BE HARMFUL IF INGESTED. MAY CAUSE ALLERGIC SKIN REACTION. POSSIBLE DEVELOPMENTAL HAZARD, MAY ADVERSELY AFFECT THE DEVELOPING FETUS (BASED ON ANIMAL DATA).

## **B. POTENTIAL HEALTH EFFECTS:**

### **Acute Eye:**

Expected to cause significant irritation to the eyes. Can cause tearing, pain, burns, permanent damage to the cornea.

### **Acute Skin:**

May cause irritation upon prolonged contact. May cause sensitization.

### **Acute Inhalation:**

Harmful if inhaled. May cause coughing, shortness of breath, chest pain.

### **Acute Ingestion:**

May be harmful if swallowed. May cause nausea, vomiting.

### **Chronic Effects:**

Repeated, prolonged ingestion may cause liver damage, (See Section 11-Chronic for a discussion of animal studies.) In a rabbit study, animals fed this product during pregnancy produced an increase in the numbers of offspring with eye abnormalities and/or minor skeletal variations, only at doses that also caused maternal (parental) toxicity. (See Section 11 for details of chronic studies).

## **4. FIRST AID MEASURES**

### **FIRST AID MEASURES FOR ACCIDENTAL:**

#### **Eye Exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.

#### **Skin Exposure:**

In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned.

#### **Inhalation:**

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

#### **Ingestion:**

Wash out mouth with water and keep at rest. Seek immediate medical attention. Do not induce vomiting unless instructed to do so by a physician.

### **MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:**

Skin contact may aggravate existing skin disease.

### **NOTES TO PHYSICIAN:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

## 5. FIRE FIGHTING MEASURES

### FIRE HAZARD DATA:

**Flash Point:**

Not Applicable

**Extinguishing Media:**

Recommended: water fog, carbon dioxide, dry chemical, foam.

**Special Fire Fighting Procedures:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind; keep out of low areas. Evacuate residents who are downwind of fire.

**Unusual Fire and Explosion Hazards:**

Containers may explode (due to the build-up of pressure) when exposed to extreme heat.

**Hazardous Decomposition Materials (Under Fire Conditions):**

oxides of sulfur  
oxides of phosphorus  
oxides of carbon

## 6. ACCIDENTAL RELEASE MEASURES

**Evacuation Procedures and Safety:**

Ventilate closed spaces before entering. Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8. Evacuate and isolate spill area.

**Containment of Spill:**

Stop leak if it can be done without risk. Dike spill using absorbent or impervious materials such as earth, sand or clay. Dike area to prevent runoff. Collect and contain contaminated absorbent and dike material for disposal.

**Cleanup and Disposal of Spill:**

Recover material, if possible. DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER. Absorb with an inert absorbent. Shovel up into an appropriate closed container (see Section 7: Handling and Storage). Clean up residual material by washing area with water. Collect washings for disposal. The material should be properly packaged and disposed of in compliance with applicable regulations. Decontaminate tools and equipment following cleanup.

**Environmental and Regulatory Reporting:**

Do not flush to drain. Runoff from fire control or dilution water may cause pollution. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800 -424-8802) and to state and/or local agencies.

## 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperatures:**

Not Available

**Handling:**

Personnel handling this product should be thoroughly trained as to its hazards. Do not get on skin or in eyes. Do not breathe vapors and mists. Avoid direct or prolonged contact with skin and eyes. Use only as directed.

\*\* HAZARD WARNING: This product belongs to a chemical family that HAS BEEN TESTED in combination with Trimethylolpropane , Trimethylolpropane derived products or their corresponding Trimethylolpropane homologs for toxicity of the thermal decomposition products in the absence of flame. Products in this chemical family PRODUCED NO SIGNIFICANT ADVERSE HEALTH EFFECTS in laboratory animals. However, there is a possibility that this thermal decomposition may produce bicyclic phosphates and/or phosphites in combination with certain other phosphorus compounds. Bicyclic phosphates and phosphites have acute neurotoxic properties and may cause convulsive seizures in laboratory test animals. Follow all precautionary measures outlined in this Material Safety Data Sheet and/or contact Rhodia Inc.

**Storage:**

Store in an area that is clean, cool, dry, well-ventilated, Store away from; bases, oxidizers, reducing agents, Store in tightly closed containers. Container material to avoid: ordinary steel, Recommended container material: high density, high molecular weight polyethylene containers. Store in original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure Guidelines:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

**TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE**

ACGIH	Notes	TWA	STEL
		2 mg/cu m	

**Engineering Controls:**

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

**Respiratory Protection:**

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

**Eye/Face Protection:**

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended

for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Face contact should be prevented through use of a face shield.

**Skin Protection:**

Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

**Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

**Physical Appearance:**

colorless / liquid.

**Odor:**

characteristic odor.

**pH:**

3 to 6 at 100 wt/wt%.

**Specific Gravity:**

1.09 at 20 C (68 F).

**Density:**

1.09 g/ml at 20 C (68 F).

**Water Solubility:**

miscible

**Melting Point Range:**

Not Available

**Freezing Point Range:**

~ -1 C (30 F)

**Boiling Point Range:**

Not Available

**Vapor Pressure:**

Not Available

**Vapor Density:**

Not Available

**Viscosity:**

viscosity (centistokes) : 22 cs at 24 C (75 F).

**Molecular Weight:**

406.3

## 10. STABILITY AND REACTIVITY

**Chemical Stability:**

This material is stable under normal handling and storage conditions described in Section 7. Under unusual conditions, such as very high temperatures and/or in the presence of strong reducing agents, the product may break down to form hazardous decomposition products noted below. The customer is advised to seek further advice from Rhodia Water Technical Service personnel when considering such applications.

**Conditions To Be Avoided:**

heat

Temperatures above 160C.

See HAZARD WARNING under HANDLING : in Section 7.

**Materials/Chemicals To Be Avoided:**

strong bases

strong acids

strong oxidizing agents

strong reducing agents

**The Following Hazardous Decomposition Products Might Be Expected:****Decomposition Type: thermal**

oxides of sulfur

oxides of phosphorus

oxides of carbon

phosphine gas

**Hazardous Polymerization Will Not Occur.****Avoid The Following To Inhibit Hazardous Polymerization:**

not applicable

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:****Toxicological Information and Interpretation:**

eye - eye irritation, rabbit. Severely irritating. This material is expected to cause significant irritation to the eyes.

**Acute Skin Irritation:****Toxicological Information and Interpretation:**

skin - skin irritation, rabbit. Minimally irritating. This material is not expected to cause significant irritation to the

skin.

skin - sensitization, guinea pig. Sensitizing. May cause significant allergic skin reaction.

**Acute Dermal Toxicity:**

The following data is for similar or related products.

**Toxicological Information and Interpretation:**

LD50 - lethal dose 50% of test species, > 2000 mg/kg, rat. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate.

**Acute Respiratory Irritation:**

No test data found for product.

**Toxicological Information and Interpretation:**

lung - lung irritation (qualitative), \*\*. This material is not expected to cause significant irritation to the respiratory tract.

**Acute Inhalation Toxicity:**

The following data is for similar or related products.

**Toxicological Information and Interpretation:**

LC50 - lethal concentration 50% of test species, 0.59 mg/l/4 hr, rat. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate.

**Acute Oral Toxicity:**

The following data is for similar or related products.

**Toxicological Information and Interpretation:**

LD50 - lethal dose 50% of test species, 575 mg/kg, rat. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate.

**Chronic Toxicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

The following data is for similar or related products.

Toxicological Information and Interpretation - REPRODUCTIVE TOXICITY, rat. No impairment of fertility was observed in a two generation feeding study. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate. - CARCINOGENICITY, \*\*. There was no evidence of carcinogenicity in F344/N rats and B6C3F1 mice (both sexes) dosed by gavage at 5 or 10 mg THPS/kg/day for 2 years. <sup>a</sup>ref. NTP study report TR296, 1987|. - MUTAGENICITY, \*\*. Ames Test: Negative. - MUTAGENICITY, \*\*. Chinese hamster ovary cells (chromosomal aberrations): Positive. - TERATOGENICITY, \*\*. A developmental toxicity study in rabbits resulted in statistically significant developmental effects in offspring, principally including eye malformations, hydrocephaly and skeletal variations, at doses that also caused maternal (parental) bodyweight gain reduction. The No Observed Effect Level (NOEL) for development toxicity and maternal toxicity (rabbit) = 18 mg/kg/day. A developmental toxicity study in rats showed a statistically significant increase only in one skeletal variation (supernumary ribs), at doses that also caused maternal toxicity. The No Observed Effect Level for development toxicity (rat) = 30 mg/kg/day; No observed effect level for maternal toxicity (rat) = 15 mg/kg/day. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate. Medical surveillance for over 30 years of employees in our manufacturing facility has shown no evidence of developmental toxicity from long-term exposure nor from exposure following an acute incident, for example, a major or minor spillage. - MUTAGENICITY, \*\*. Dominant Lethal Assay <sup>a</sup>rat| (in vivo): Negative. - MUTAGENICITY, \*\*. Mouse micronucleus (in vivo): Negative. - MUTAGENICITY, \*\*. Unscheduled DNA synthesis assay: Negative. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate. - SUB-CHRONIC EXPOSURE, 1 mg/kg/90 days, rat. Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate.

## 12. ECOLOGICAL INFORMATION



**Ecotoxicological Information:**

The following data is based on the technical grade active ingredient(s) (TGAI).

**Ecotoxicological Information and Interpretation:**

LC50 - lethal concentration 50% of test species, 19.4 mg/l/48 hr, Daphnia magna.

LC50 - lethal concentration 50% of test species, 93 mg/l/96 hr, bluegill sunfish (*Lepomis macrochirus*).

LC50 - lethal concentration 50% of test species, 119 mg/l/96 hr, rainbow trout (*Oncorhynchus mykiss*).

LC50 - lethal concentration 50% of test species, 86 mg/l/96 hr, Juvenile Plaice.

LC50 - lethal concentration 50% of test species, 340 mg/l/96 hr, Brown Shrimp.

LC50 - ecotox Method for association with dry sediment weight., 2174 mg/kg/10 days, *Corophium volutator*. (dry sediment weight).

LD50 - lethal dose 50% of test species, 311 mg/kg, Mallard duck (*Anas platyrhynchos*). Material tested was a 75% aqueous solution of Tetrakis (hydroxymethyl) phosphonium sulfate.

**Chemical Fate Information:**

Product is not expected to bioaccumulate. The following data is for similar or related product. This product is readily biodegradable under aerobic and anaerobic conditions in a sediment-water system. 28 days (aerobic) and 30 days (anaerobic). THPS has been shown to degrade rapidly once diluted to sub-ppm concentrations and forms trishydroxymethyl phosphine oxide which is classified as non-toxic.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:**

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**EPA Hazardous Waste - NO**

**14. TRANSPORTATION INFORMATION**

**Transportation Status: IMPORTANT! Statements below provide additional data on listed DOT classification.**

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

**US Department of Transportation**

Shipping Name:

NOT REGULATED

**15. REGULATORY INFORMATION****Inventory Status**

<b>Inventory</b>	<b>Status</b>
UNITED STATES (TSCA)	Y
CANADA (DSL)	Y

EUROPE (EINECS/ELINCS)	Y
AUSTRALIA (AICS)	Y
JAPAN (MITI)	Y
SOUTH KOREA (KECL)	Y

Y = All ingredients are on the inventory.

E = All ingredients are on the inventory or exempt from listing.

P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

## FEDERAL REGULATIONS

### Inventory Issues:

This product is excluded from TSCA because it is solely for FIFRA regulated use.

### SARA Title III Hazard Classes:

Fire Hazard	- NO
Reactive Hazard	- NO
Release of Pressure	- NO
Acute Health Hazard	- YES
Chronic Health Hazard	- YES

## STATE REGULATIONS:

This product contains the following components that are regulated under California Proposition 65:

Ingredient Name	Cancer List	Reprod. List	No Sign. Risk Lvl (ug/day) California	RPI
FORMALDEHYDE	Y	N	40	ND

## 16. OTHER INFORMATION

### National Fire Protection Association Hazard Ratings--NFPA(R):

2	Health Hazard Rating--Moderate
0	Flammability Rating--Minimal
1	Instability Rating--Slight

### National Paint & Coating Hazardous Materials Identification System--HMIS(R):

2	Health Hazard Rating--Moderate
0	Flammability Rating--Minimal
1	Reactivity Rating--Slight

### Reason for Revisions:

Change and/or addition made to Section 3, Warning Statements in Section 3, Section 11, Section 14.

### Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer  
ND - Not determined  
RHODIA - Rhodia Established Exposure Limits

**Disclaimer:**

The information herein is given in good faith but no warranty, expressed or implied, is made.

**\*\* End of MSDS Document \*\***

This document was created with Win2PDF available at <http://www.daneprairie.com>.  
The unregistered version of Win2PDF is for evaluation or non-commercial use only.