



SOVEREIGN CHEMICAL COMPANY

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Material Safety Data Sheet

Rosinox

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: Arkema Organic Chemicals 2000 Market St. Philadelphia, PA 19103-3222	Emergency Contact: Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA) Arkema: 215-419-7711 (Business hours)
Trade Name(s): Rosinox	MSDS Number: 1771
Chemical Name: Paratertiobutyl phenol disulfide polymer	Synonyms: Alkyl phenol disulfide polymer
Prepared By: Sovereign Chemical Company	Date of Issue: July 27, 2010 Revision Number: 3 (Supersedes: March 27, 2007) Change(s): Add Sulfur Ingredient. Update color, toxicology.

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>OSHA</u>	<u>ACGIH</u>
Paratertiobutylphenol disulfide polymer	60303-68-6	< 100	NE	NE
Sulfur	77-4-34-9	<5		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Yellow to amber pastilles. Irritant may cause sensitization by skin contact. Use appropriate personal protective equipment. Avoid contact with skin/eyes and inhalation of dust. During fire situations, irritating and toxic gases such as carbon monoxide, carbon dioxide and sulfur oxides may be generated. Keep from entering storm or sanitary sewers, ground water, or soil.

HMIS® III: Health – 1, Flammability – 1, Physical Hazard – 0, Personal Protection – B* (safety glasses, gloves)

*This is recommended personal protection equipment; final personal protection equipment should be determined by the plant safety department based on the actual conditions under which the product is used.

Potential Health Effects:

Eye: Very mildly irritating.

Skin Contact: May cause irritation. Hot molten material will cause severe burns and will stick to the skin as it cools. It is difficult to be removed after it solidifies. Be extra cautious when handling molten material.

Ingestion: Not expected to be a primary route of entry. Practically non-toxic.

Inhalation: Nuisance dusts may be irritating to upper respiratory tract. Avoid breathing dust. May aggravate asthma or other breathing difficulties.

Carcinogenicity: NTP - no IARC - no

4. FIRST AID MEASURES

Skin: Wash with soap and water. Immediately remove all contaminated clothing.

Eye: Flush with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: Induce vomiting as directed by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems, consult a physician.

5. FIRE FIGHTING MEASURES

Flash Point: > (250°C) Closed cup ASTM D 3278 **LEL:** NE **UEL:** NE **AUTO IGN. TEMP. :** NE
(263°C) Open Cup (NF T60-118)

Use dry chemical, foam, or carbon dioxide to extinguish fires. In the event of fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in the positive pressure mode. During fire situations, irritating and toxic gases such as carbon monoxide, carbon dioxide and sulfur oxides may be generated.

6. ACCIDENTAL RELEASE MEASURES

Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum. Individuals involved in the cleanup should wear appropriate personal protective equipment. See Section 8. Unnecessary personnel should be kept clear of the area. Use non-sparking tools. Avoid contact with skin/eyes and inhalation of dust. Destroy the recovered product by incineration at an approved waste disposal site observing all local, state and federal regulations.

7. HANDLING AND STORAGE

Storage Conditions: Do not store near strong oxidizing agents. Keep containers tightly closed in a cool, well ventilated place.

Handling: Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. Avoid dispersion of dust into air to reduce potential explosion hazard. Eliminate ignition sources. Avoid contact with skin/eyes and inhalation of dust. Individuals handling this product should wear personal protective equipment specified in Section 8. Plant environment should include controls and equipment specified in Section 8.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation should be provided. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practices" published by the ACGIH and available at their web site, <http://www.acgih.org>. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory Protection: Not needed if Engineering Controls (see above) are present.

Eye Protection: Use good industrial practice to avoid eye contact. Safety glasses recommended.

Skin Protection: Wearing protective gloves (synthetic rubber, plastic materials) is recommended. Wash hands and contaminated skin thoroughly after handling.

Other Protection Items: Neoprene or nitrile rubber coated apron or other body covering may be required if there is a possibility of regular work clothing becoming contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Yellow to amber pastilles	Melt Point: 95-115°C (Ring & Ball Method)
Vapor Density (Air = 1): NA	Octanol/Water Partition Coefficient: NA
Vapor Pressure: NA	Evaporation Rate BuOAC = 1: NA
Odor: Slightly acrid.	Density: 1163 kg./m ³ (110°C); Bulk: 805 kg/m ³
% Volatile by Volume: NA	Boiling Point: NA
% Solubility (H₂O) : Negligible	pH: NA
Other: Soluble in Toluene, Ethanol, Acetone	Decomposition Temperature: 217 °C

10. STABILITY AND REACTIVITY

Stability /Polymerization: Stable at normal storage and handling temperatures.

Incompatibility (conditions to avoid): Contact with strong oxidizing agents, strong acids may cause moderate energy release. To avoid thermal decomposition, do not overheat.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur oxides.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Ingestion: In animals (rat), slightly harmful by ingestion. No mortality: 2,000 mg/kg

Local Effects: Skin contact: In animals (rabbit): Slightly irritating to skin.

Eye contact: In animals (rabbit): Slightly irritating to eyes.

Sensitization: Skin Contact: In animals (guinea pig): Strong skin sensitizer.

Special effects: Genotoxicity: In vitro: Ames test in vitro: Inactive.

In vitro chromosomal abnormality test on human lymphocytes: Inactive.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Product, all product residues and packaging should be incinerated in accordance with all local, state, and/or federal regulations.

14. TRANSPORTATION INFORMATION

US DOT, Canada TDG, RID/ADR, IMDG, IATA: Not regulated.

15. REGULATORY INFORMATION

TSCA Inventory Status: All ingredients of this product are listed on the TSCA Inventory

CERCLA/RCRA: Not listed

Clean Air Act: Not listed

SARA Title III, Section 302: Not listed.

SARA Title II, Section 313: Not listed.

California Proposition 65: Not listed.

Massachusetts Right to Know: Not listed

Pennsylvania Right to know: Not listed

Canadian DSL: All ingredients are listed.

China CLECS: All ingredients are listed.

SARA Hazard Classification:

Immediate (acute) Health: no

Delayed (chronic) Health: no

Sudden Release of Pressure: no

Reactive: no

Fire: no

16. OTHER INFORMATION

NE = Not Established

NA = Not Applicable

ND = Not Determined

IMPORTANT SAFETY NOTICE: The information in the Material Safety Data Sheet relates only to the specific material(s) described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of this product are not within the control of Sovereign Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.

Users of this product should study this Material Safety Data Sheet and become aware of the product hazards and safety information before using the product. Users should also notify their employees, agents, and contractors of the information on this Material Safety Data Sheet and any product hazards and safety information in order to provide safe use of this product.