



SOVEREIGN CHEMICAL COMPANY

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Material Safety Data Sheet

Ribetak® 7578 Pastilles

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: SI Group 2750 Balltown Road Schenectady NY 12301	Emergency Contact: Chemtrec: 1-800-424-9300 (continental USA) 1-703-527-3887 (outside continental USA)
Trade Name(s): Ribetak® 7578 Pastilles	MSDS Number: 1093
Chemical Name: Thermoplastic resin formed from the condensation between octylphenol and formaldehyde.	Synonyms: Octylphenol formaldehyde resin
Prepared By: Sovereign Chemical Company	Date of Issue: January 25, 2011 Revision Number: 5 (Supersedes March 2, 2010) Change(s): Update ingredients, fire fighting measures, toxicology, regulatory.

2. INGREDIENT

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
Phenol	108-95-2	<1	NE	NE
p-t-octylphenol	140-66-9	<0.5	NE	NE
Formaldehyde	50-00-0	<0.01	NE	NE

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Brown pastilles. Use appropriate personal protective equipment. During fire situations, irritating and toxic gases such as phenol, formaldehyde and oxides of carbon may be generated. Keep from entering storm or sanitary sewers, ground water, or soil. Avoid contact with skin/eyes and inhalation of dust.

HMIS® III: Health - 1; Fire - 0; Physical Hazard - 0; 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: Possible transitory irritation due to dust.

Skin Contact: May cause irritation.

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

Inhalation: Possible temporary irritation of mucous membranes if exposure is prolonged.

Carcinogenicity: No NTP or IARC materials

4. FIRST AID MEASURES

Skin: Remove contaminated clothing and wash the exposed skin with large amounts of water. See a physician if irritation persists.

Eye: Immediately flush eyes with flowing water for at least 15 minutes. See a physician if irritation persists.

Ingestion: Give water to drink. Do not induce vomiting. Consult a doctor if irritation persists.

Inhalation: If dust inhalation is prolonged, wash nasal passages with water.

5. FIRE FIGHTING MEASURES

Flash Point: ND

LEL: ND

UEL: ND

Auto Ignition Temperature: ND

Use water, dry agent, or foam to extinguish fires. In the event of fire, wear chemical protection suit protective and positive pressure breathing apparatus. During fire situations, irritating and toxic gases such as phenol, formaldehyde and oxides of carbon may be generated. Pastilles present no special fire or explosion hazard; however, dust generated during handling or storage can create explosive mixtures in the air. Vapors may be heavier than air and may travel along the ground to some distant source of ignition and flash back.

The Minimum Ignition Energy for Phenolic resins can be as low as 3mJ(millijoules).

The minimum Explosive Concentration for phenolic resins can be as low as 0.25 oz/ft³ or ~20 mg/ft³.

6. ACCIDENTAL RELEASE MEASURES

Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum. Use non-sparking tools. Recovered material can be incinerated in a furnace where permitted, observing all local, state and federal regulations. Avoid contact with skin/eyes and inhalation of dust. Individuals involved in the cleanup should wear appropriate personal protective equipment. See Section 8. Unnecessary personnel should be kept clear of the area.

7. HANDLING AND STORAGE

Storage Conditions: Do not store near acids, strong oxidizing agents open flames or at high temperatures. Store protected from heat, sun and weather. Keep original packaging away from humidity.

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: Wear a dust mask if necessary.

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Dust-tight goggles are recommended for dusty operations of areas where vapors accumulate.

Protection Gloves: Gloves impervious to dust or vapor.

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: Brown pastilles	Melt Point: 120-140°C (248-284°F) (Ring & Ball Method)
Vapor Density (Air = 1): NA	Octanol/Water Partition Coefficient: NE
Vapor Pressure: NA	Evaporation Rate BuOAC = 1: NA
Odor: None	Specific Gravity: 1.0-1.05 g/cm ³
% Volatile by Volume: NA	Boiling Point: NA
% Solubility (H₂O): Insoluble and not miscible	pH: NA

10. STABILITY AND REACTIVITY

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

Incompatibility (conditions to avoid): Acids and strong oxidizing agents. Keep away from heat and sources of ignition.

Hazardous Decomposition Products: Phenol and derivatives formaldehyde.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

	Formaldehyde	Phenol	p-t-octylphenol
Dermal LD50(Rabbit)	270 mg/kg	630 mg/kg	1880 mg/kg
Inhalation LC50(Rat)	165 ppm	82 ppm	
Oral LD50 (Rat)	100 mg/kg	317 mg/kg	2160 mg/kg

IARC – Group 1 (Carcinogenic to Humans) Formaldehyde Monograph 88 (2006), Monograph 62 (1995), Supplement 7 (1987).

12. ECOLOGICAL INFORMATION

Mobility: In water: Not soluble.

EC50 (Daphnia) > 100 mg/l (48 Hr)

Persistence and degradability: Not degradable.

Ecotoxicity: Do not discharge waste into natural water courses or sewers.

13. DISPOSAL CONSIDERATIONS

Product, all product residues and packaging should be disposed of in an EPA approved incinerator or landfill 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

SARA Hazard Classification:

Immediate (Acute) Health: yes

Delayed (Chronic) Health: yes

Sudden Release of Pressure: no

Reactive: no

Fire: no

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

CERCLA/RCRA: Phenol and Formaldehyde are listed. Formaldehyde content is < 0.01%. Phenol content is <1%.

Clean Air Act: Phenol and Formaldehyde are listed.

SARA Title III, Section 302/304: This product contains Phenol (TPQ 500/10000, RQ 1000) and Formaldehyde (TPQ 500, RQ 100) which are on the list of Extremely Hazardous Substance List, Section 302, SARA Title III.

SARA Title III, Section 313: This product contains Phenol and Formaldehyde which are on the Toxic Chemical List, Section 313, SARA Title III.

California Proposition 65: This product contains Formaldehyde which is currently on the California List of known Carcinogens and Reproductive Toxins.

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

Sovereign Chemical Company
1225 West Market Street
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Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right Know Act, or EPCRA) requires certain suppliers of mixtures or tradename products to notify their customers when such mixtures or tradename products contain chemicals listed in Section 313. This letter constitutes a supplier notification that the following product you ordered contains one or more chemicals on the Section 313 list (*) as noted below:

Product Name: Ribetac® 7578 Pastille		
Chemical Name (*)	CAS #	% Composition
Formaldehyde	50-00-0	<0.01
Phenol	108-95-2	<1.0

In addition, an MSDS for this product is enclosed for your use.

If you are a distributor and you sell this product to another customer (s), you are required under Section 313 to furnish the same information and MSDS to that customer (s).

If you have any questions, please do not hesitate to contact our Technical Department at 330-869-0500.

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