

**SOVEREIGN CHEMICAL COMPANY**

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## Material Safety Data Sheet

### Ribetak® 7522 Flake

#### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>Manufacturer:</b> SI Group 2750 Balltown Road Schenectady NY 12301	<b>Emergency Contact:</b> Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
<b>Trade Name(s):</b> Ribetak® 7522 Flake	<b>MSDS Number:</b> 1088
<b>Chemical Name:</b> Phenolic resin based on butyl phenol-formaldehyde	<b>Synonyms:</b> p-t-Butylphenol formaldehyde polymer
<b>Prepared By:</b> Sovereign Chemical Company	<b>Date of Issue</b> February 1, 2011 <b>Revision Number:</b> 8 (Supersedes May 6, 2009) <b>Change(s):</b> Update first aid, fire fighting measures, melt point, toxicological.

#### 2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
p-t-butylphenol	98-54-4	< 2	NE	NE
Formaldehyde	50-00-0	< 100 ppm	1 ppm	NE

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Yellow flakes. 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.

##### 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:** May cause irritation.

**Carcinogenicity:** NTP - yes IARC - yes

Formaldehyde is listed by NTP as an anticipated human carcinogen. Formaldehyde is listed by IARC as a probable human carcinogen (Group 2B). This product contains < 0.1% formaldehyde.

#### 4. FIRST AID MEASURES

**Skin:** Remove contaminated clothing and wash the exposed skin with large amounts of water or use a resin removing cream. 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:** Do not induce vomiting. Give plenty of water to drink. Consult a doctor if irritation persists.

**Inhalation:** Remove patient to fresh air. Seek medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** > 94°C/201°F (Tag Closed Cup)    **LEL:** ND **UEL:** ND    **Auto Ignition Temperature:** ND

Use water spray, dry chemical, or foam to extinguish fires. 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 phenol, formaldehyde and oxides of carbon may be generated. Vapors may be heavier than air and may travel along the ground to some distant source of ignition and flash back.

## 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. Individuals involved in the cleanup should wear appropriate personal protective equipment. See Section 8. Unnecessary personnel should be kept clear of the area. Shut off all ignition sources.

## 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.

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/ft<sup>3</sup> or ~20 mg/ft<sup>3</sup>.

## 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.

### *Airborne Exposure Guidelines for Formaldehyde*

Exposure Limit	Value
ACGIH	0.3 ppm(0.37 mg/M <sup>3</sup> )
ACGIH Sensitizer	Y
OSHA STEL PEL	2 ppm
OSHA TWA PEL	0.75 ppm

- Skin contact limits designated with a Y above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

- ACGIH Sensitizer designator with a value Y above means that the exposure to this material may cause allergic reaction.

**Other Exposure Limit Information:** During processing two step and/or one step phenolics small amounts of ammonia, phenol and formaldehyde are evolved. Breathing of the fumes evolved could be harmful. The OSHA standard 29 CFR 1910.1000 table Z1 and Z2 provide the allowable exposure for ammonia, phenol and formaldehyde as listed below:

COMPONENT	TWA(TLV)	STEL
AMMONIA	L1 25 ppm	35 ppm
PHENOL	L2 5ppm(skin)	
FORMALDEHYDE	L3 0.75 ppm	0.3 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State:</b> Yellow flakes	<b>Melt Point:</b> 110-120°C (230-248°F) (Ring & Ball Method)
<b>Vapor Density (Air = 1):</b> NA	<b>Octanol/Water Partition Coefficient:</b> NE
<b>Vapor Pressure:</b> NA	<b>Evaporation Rate BuOAC = 1:</b> NA
<b>Odor:</b> None	<b>Specific Gravity, g/cm3:</b> 1.02 – 1.05
<b>% Volatile by Volume:</b> NA	<b>Boiling Point:</b> NA
<b>% Solubility (H<sub>2</sub>O) :</b> Insoluble and not miscible	<b>pH:</b> NA

## 10. STABILITY AND REACTIVITY

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

**Incompatibility (conditions to avoid):** Heat and Acids and strong oxidizing agents

**Hazardous Decomposition Products:** Phenol and derivatives formaldehyde.

**Special Sensitivity:** None that are known.

## 11. TOXICOLOGICAL INFORMATION

	Formaldehyde	p-t-butylphenol
Dermal LD50 (rabbit)	270 mg/kg	2520 mg/kg
Inhalation LC50 (rat)	165 ppm	
Oral LD50 (rat)	100 mg/kg	5660 mg/kg

**Sensitization (skin, respiratory):** Some people may be susceptible to an allergic skin reaction with this substance in undiluted form.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information (Formaldehyde):** This material is practically non toxic to slightly toxic to aquatic organism LC50 24 – 1,000 mg/l). High concentrations of this material are used as disinfectant to kill viruses, bacteria, fungi and parasites.

**Chemical Fate Information (Formaldehyde):** The theoretical oxygen demand (ThOD) is 1.068. The 5 day biochemical oxygen demand (BOD) was 60% using sewage seed. The 5 day BOD was 47 – 99 % using activated sludge and 0% using bacteria culture. This material is not known to bioconcentrate or bioaccumulate.

## 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

**WHMIS:** 1% (p-t-butylphenol)

**CERCLA/RCRA:** Not listed

**SARA Title III, Section 302:** This product contains formaldehyde, which is listed on the Extremely Hazardous Substance List, Section 302. Formaldehyde content is < 0.1%.

**SARA Title II, Section 313:** This product contains formaldehyde which is listed on the Toxic Chemical List, Section 313. CERCLA RQ 100 lbs. SARA TPQ 500 lbs.

**California Proposition 65:** This product contains formaldehyde, which is listed on the California List of Known Carcinogens and Reproductive Toxins.

**Canadian DSL:** All ingredients are listed.

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

## 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  
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Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right-to-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:

<b>Product Name:</b>	<b>Ribetak® 7522</b>	
<b>Chemical Name (*)</b>	<b>CAS #</b>	<b>% Composition</b>
Formaldehyde	50-00-0	<100 ppm

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 Technical Department at 330-869-0500.

Sovereign Chemical Company