

**SOVEREIGN CHEMICAL COMPANY**

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Material Safety Data Sheet

CRJ-418 Resin

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: SI Group Rod.Edgard Maximo Zambotto km 79-Cx. Postal – CEP 12940-972 ATIBAIA – SP, Brazil	Emergency Contact : Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): CRJ-418 Resin Flakes	MSDS Number: 1775
Chemical Name: Thermoplastic resin formed from the condensation between octyphenol and formaldehyde	Synonyms: Octyphenol formaldehyde resin
Prepared By: Sovereign Chemical Company	Date of Issue: May 14, 2009 Revision Number: 1 (Supersedes: January 21, 2005) Change(s): 3 year update

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
thermoplastic resin	26678-93-3	99.9	NE	NE

formed from the condensation between octyphenol and formaldehyde
PEL and TLV values are reported as TWA unless otherwise noted.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Yellow to amber flakes. 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 clothing. Avoid inhalation of dust.

HMIS: Health - 1; Fire - 0; Reactivity - 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: Do not induce vomiting. Dilute by drinking large quantities of water. If vomiting occurs administer more water. Get medical attention..

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

Notes to Physicians:

Alkyl phenolic resin is insoluble in water. Provide general supportive measures and treat symptomatically. A specific antidote is not known. Some of the symptoms presented could become life threatening as a result of an emergency or an unexpected acute overexposure.

5. FIRE FIGHTING MEASURES

Flash Point: ND **LEL:** ND **UEL:** ND **Auto Ignition Temperature:** ND

Use water spray, dry chemical, regular 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 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.

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 Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48910. 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

<i>Appearance/Physical State:</i> Yellow pastilles	<i>Melt Point:</i> 106 – 120 °C (223 – 248 °F)
<i>Vapor Density (Air = 1):</i> NA	<i>Octanol/Water Partition Coefficient:</i> NE
<i>Vapor Pressure:</i> NA	<i>Evaporation Rate BuOAC = 1:</i> NA
<i>Odor:</i> Typical	<i>Density:</i> 1.04
<i>% Volatile by Volume:</i> NA	<i>Boiling Point:</i> NA
<i>% Solubility (H₂O) :</i> Insoluble and not miscible	<i>pH:</i> NA
<i>Other:</i> Soluble in methanol, acetone and Xylene	

10. STABILITY AND REACTIVITY

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

Incompatibility (conditions to avoid): Acids and strong oxidizing agents. Avoid ignition sources where dust is produced. Avoid high temperatures.

Hazardous Decomposition Products: Phenol and derivatives formaldehyde. Upon decomposition this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: non-harmful

Local Effects:

Inhalation: Possible temporary irritation of respiratory tract.

Eye-contact: Possible temporary irritation due to dust (physical effect of dust).

Mucous membran-contact: Transitory irritation possible due to dust.

No NTP and IARC ingredients.

LD₅₀ 2160 mg/kg rat

12. ECOLOGICAL INFORMATION

Mobility:

In water: Not soluble.

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: Not listed

Clean Air Act: Not listed

SARA Title III, Section 302: This product does not contain any chemicals currently on the Extremely Hazardous Substance List, Section 302, and SARA Title III.

SARA Title III, Section 313: This product does not contain any chemicals currently on the Toxic Chemical List, Section 313, and SARA Title III.

California Proposition 65: This product does not contain any chemicals currently on the California List of known Carcinogens and Reproductive Toxins.

Hazardous Special Substance List.

Canadian DSL: All ingredients are listed.

16. OTHER INFORMATION

NE = Not Established

NA = Not Applicable

ND = Not Determined

Information contained in this MSDS sheet have been gathered from the following documents:

Manufacturers MSDS CRJ 418

Chemical REG-A-DEX, J.J.Keller, March 2000

WHMIS Compliance Manual, Carswell, April 2004

Transportation of Dangerous Good, J.J.Keller, February 2003

Code of Federal Regulations, Transportation, 49 CFR Parts 100 to 185, 2003

NIOSH Pocket Guide to Chemical Hazards, June 1997

ACGIH Threshold Limit Values, 1999

HMIS Implementation Manual, 2nd Edition

Toxicity and Safe Handling of Rubber Chemicals, BRMA, 3rd Edition

ChemCheck Handbook, Specialty Technical Publishers, 2004

IARC WEB site

NTP WEB site

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.