



with national, regional and local laws.

### Physical Hazards Not Otherwise Classified

Liquid resin can ignite and burn in a fire. Molten material will produce thermal burns.

No Data Available

### Health Hazards Not Otherwise Classified

Inhalation: Fumes may be unpleasant and may produce nausea.

Skin Contact: When molten, product will cause thermal burns.

Eye Contact: Eye contact may cause irritation.

Ingestion: Small amounts ingested may produce mild gastrointestinal disturbances.

No Data Available

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## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

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### Composition Information

Synonyms : Colophony

Rosin, gum

Molecular weight : 302 g/mol

CAS	Chemical Name	% By Weight
8050-09-7	ROSIN	100%

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## SECTION 4) FIRST-AID MEASURES

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### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### Eye Contact

Flush eyes with water as a precaution.

### Skin Contact

Wash off with soap and plenty of water. Consult a physician.

### Ingestion

Do not induce vomiting. If ingested, seek medical attention immediately.

### Most Important Symptoms and Effects, Both Acute and Delayed

No Data Available

### Indication of Any Immediate Medical Attention and Special Treatment Needed

No Data Available

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## SECTION 5) FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media

Foam, water fog, dry chemical, carbon dioxide.

### Specific Hazards in Case of Fire

Fire will produce irritating gases.

### Fire-fighting Procedures

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

### Recommended Equipment

Wear chemical protective clothing.

### Personal Precautions

Wear safety glasses, rubber gloves, Tyvex type coverall and rubber boots.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.

### Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

## SECTION 7) HANDLING AND STORAGE

### General

Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits.

### Storage Room Requirements

Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Empty container retain residue and may be dangerous.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	CANsmg	CANspmm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)
ROSIN												

Chemical Name	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
ROSIN		(L)	(L)	Skin sen; dermatitis:		DSEN; RSEN

(L) - Exposure by all routes should be carefully controlled to levels as low as possible, DSEN - Dermal sensitization, RSEN - Respiratory sensitization

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

Density	1,034 Kg/m <sup>3</sup> (20°C)
Specific Gravity	-
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Appearance	light yellow, solidified mass or fragments
Odor Description	N/A
pH	No Data Available
Melting Point	75 - 82°C
Low Boiling Point	No Data Available
High Boiling Point	N/A
Flash Point	188 °C - closed cup
Vapor Pressure	0.06 hPa (0.05 mmHg) (20°C)
Vapor Density	No Data Available
Evaporation Rate	No Data Available
Water Solubility	0.0009 g/l (20°C)
Partition coefficient:	log Pow: 1.9 - 7.7 (n-octanol/water)

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## SECTION 10) STABILITY AND REACTIVITY

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### Reactivity

No Data Available

### Stability

Stable under normal storage and handling conditions.

### Conditions to Avoid

Avoid contact with incompatible materials.

### Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.

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## SECTION 11) TOXICOLOGICAL INFORMATION

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### Likely Route of Exposure

Inhalation, ingestion, skin absorption

### Acute Toxicity

Possible mild eye and skin irritant.

Oral LD50

LD50 Oral - Rat - male and female - 2.800 mg/ka

Inhalation LC50  
No data available

Dermal LD50  
LD50 Dermal - Rat - male and female - > 2,000 mg/kg

**Aspiration Hazard**

No Data Available

**Carcinogenicity**

This product is not listed as a carcinogen

**Germ Cell Mutagenicity**

No Data Available

**Reproductive Toxicity**

No Data Available

**Respiratory/Skin Sensitization**

May cause an allergic skin reaction

**Serious Eye Damage/Irritation**

No Data Available

**Skin Corrosion/Irritation**

No Data Available

**Specific Target Organ Toxicity - Repeated Exposure**

No Data Available

**Specific Target Organ Toxicity - Single Exposure**

No Data Available

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity**

Toxicity to fish static test LC50 - Brachydanio rerio (zebrafish) - 60.3 mg/l - 96 h

**Mobility in Soil**

No Data Available

**Bio-accumulative Potential**

Inherently biodegradable

**Persistence and Degradability**

Biodegradability - aerobic:  
Result: 58 % - Not readily biodegradable.  
Method: OECD Test Guideline 301B

Inherently biodegradable

**Other Adverse Effects**

No Data Available

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local

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## SECTION 14) TRANSPORT INFORMATION

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### Transport Canada Information

UN number: Not Regulated

Proper shipping name: N/A

Hazard class: N/A

Packaging group: N/A

### U.S. DOT Information

UN number: Not Regulated

Proper shipping name: N/A

Hazard class: N/A

Packaging group: N/A

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## SECTION 15) REGULATORY INFORMATION

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### Safety, health and environmental regulations

All components of this product are listed on the U.S. TSCA Inventory and listed on the Canadian DSL.

WHMIS: Non-controlled

CAS	Chemical Name	% By Weight	Regulation List
8050-09-7	ROSIN	100%	DSL, TSCA

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## SECTION 16) OTHER INFORMATION

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### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CANsmg or CANspmm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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