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RA ROSIN FLUX PASTE

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: 8342**Other Means of Identification:** RA Rosin Flux Paste / Flux RA en Pâte**Related Part #** 8342-10ML, 8342-50G

Recommended Use and Restriction on Use

Use: Rosin activated flux paste**Uses Advised Against:** Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**

(Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 serviceCANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazard(s) Identification
Classification of the Hazardous Material
GHS Categories

| Criteria | | Category | Signal Word | Pictograms |
|----------------|-------------|----------|-------------|-------------|
| Sensitization | Respiratory | 1 | Danger | Health |
| Sensitization | Skin | 1 | Warning | Exclamation |
| Eye Irritation | | 2A | Warning | Exclamation |

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

| | |
|---|--|
| Signal Word | DANGER |
| Pictograms | Hazard Statements |
|  | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled |
|  | H317: May cause an allergic skin reaction H319: Causes serious eye irritation |
| Prevention | Precautionary Statements |
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing vapors and fumes. |
| P284 | In case of inadequate ventilation, wear respiratory protection. |
| P280 | Wear protective gloves and eye protection. |
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed of the workplace. |

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| Response | Precautionary Statements |
|--------------------|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTER or doctor. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice or attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice or attention. |
| Disposal | Precautionary Statements |
| P501 | Dispose of contents in accordance to local, regional, national, and international regulations. |

Hazards Not Otherwise Classified

| Other Criteria | Hazard Statements/Precautionary Statement | Signal Word | Pictograms |
|-----------------------|--|--------------------|-------------------|
| None | None | None | None |

Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|--------------|----------------------|------------------|
| 8012-95-1 | paraffin oils | 10% |
| 8050-09-7 | rosin | 5% |
| 505-48-6 | suberic acid | 3% |
| 110-15-6 | succinic acid | 2% |

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RA ROSIN FLUX PASTE**Section 4: First-Aid Measures**

| <i>Exposure Condition</i> | <i>GHS Code: Precautionary Statement</i> |
|---------------------------|---|
| IF INHALED | P304 + P340, P342 + P311 |
| Immediate Symptoms | <i>IF exposed to solder fumes: coughing, sore throat, wheezing, breathing difficulty</i> |
| Response | Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. |
| IF ON SKIN | P302 + P352, P333 + P313, P362 + P364 |
| Immediate Symptoms | <i>redness, mild irritation, rash</i> |
| Response | Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. |
| IF IN EYES | P305 + P351 + P338, P337 + P313 |
| Immediate Symptoms | <i>serious irritation</i> |
| Response | Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| IF SWALLOWED | P301 + P330, P331 |
| Immediate Symptoms | <i>Low toxicity</i> |
| Response | Rinse mouth. Do not induce vomiting. |

Section 5: Fire-Fighting Measures

| | |
|----------------------------|--|
| Extinguishing Media | In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Specific Hazards | Not flammable nor combustible, but burns if involved in a fire. |
| Combustion Products | Produces carbon oxides (CO, CO ₂), rosin solder pyrolysis products and nitrogen oxides (NO _x). |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

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RA ROSIN FLUX PASTE**Section 6: Accidental Release Measures**

| | |
|----------------------------------|--|
| Personal Protection | Use personal protection recommended in Section 8. |
| Precautions for Response | Avoid breathing vapors and fumes. |
| Environmental Precautions | Avoid releasing to the environment. |
| Containment Methods | Not applicable—not readily flowable |
| Cleaning Methods | Collect paste in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue. |
| Disposal Methods | Dispose spill waste according to Section 13. |

Section 7: Handling and Storage

| | |
|-------------------|---|
| Prevention | Keep out of reach of children. Avoid breathing fumes and vapors. Contaminated work clothing should not be allowed of the workplace. |
| Handling | In case of inadequate ventilation, wear respiratory protection. Wear protective gloves and eye protection. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. |
| Storage | Not available |

Section 8: Exposure Controls/Personal Protection
Substances with Occupational Exposure Limit Values

| Chemical Name | Country | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|--|--|--|---|
| paraffin oils <i>oil mist, mineral</i> | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | Not established 5 mg/m ³ Not established Not established Not established 5 mg/m ³ | Not established Not established Not established Not established Not established 10 mg/m ³ |
| rosin, colophony <i>(thermal decomposition)</i> | ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC | (S), (L), asthma Not established Not established (S), (L) (L) 0.1 mg/m ³ | Not established Not established Not established Not established Not established Not established |

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

S—Sensitizer

L—No exposure limit, but keep exposure as low as possible.

Engineering Controls
Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL). Keep overall exposure as low as possible.

Soft soldering temperatures (<450 °C) are generally too low to generate significant amounts of metal vapors; however, metal oxide fumes/dust or flux decomposition fumes can occur. The volatilization and degradation of the rosin flux during soldering may lead to respiratory sensitization.

RECOMMENDATION: For frequent or prolonged soldering processes, use of a local exhaust system to avoid exposure to thermal decomposition products.

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Personal Protective Equipment

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Ensure that glasses have side shields for lateral protection.

Skin Protection

For likely contacts, use of protective nitrile gloves or other chemically resistant gloves.

If contact with molten metal is likely, wear thermally resistant gloves.

Respiratory Protection

For over-exposures up to 10 x OEL of vapors or fumes, wear respirator such as a half-mask respirator with organic vapor cartridges and particulate filter.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands and exposed skin thoroughly with water and soap after handling.

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Section 9: Physical and Chemical Properties

| | | | |
|----------------------------------|----------------|--|---------------|
| Physical State | Solid | Lower Flammability Limit | Not available |
| Appearance | Yellow paste | Upper Flammability Limit | Not available |
| Odor | Mild piny odor | Vapor Pressure @20 °C | Not available |
| Odor Threshold | Not available | Vapor Density | Not available |
| pH | Not available | Relative Density @25 °C | 1.28 |
| Freezing/Melting Point | Not available | Solubility in Water | Not available |
| Initial Boiling Point | Not available | Partition Coefficient n-octanol/water | Not available |
| Flash Point | Not available | Auto-ignition Temperature | Not available |
| Evaporation Rate | Not available | Decomposition Temperature | Not available |
| Flammability (solid, gas) | Not flammable | Viscosity @25 °C | 39 000 cP |

Section 10: Stability and Reactivity

| | |
|----------------------------|---|
| Reactivity | When rosin flux is exposed to soldering temperatures (350–400 °C) during normal conditions of use, it produces oxidized rosins. These by-products are known skin and respiratory sensitizers. |
| Chemical Stability | Chemically stable at normal temperatures and pressures |
| Conditions to Avoid | Ignition sources, excessive heat, and incompatible substances |
| Incompatibilities | Strong oxidizing agents |
| Polymerization | Will not occur |
| Decomposition | Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5. |

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RA ROSIN FLUX PASTE**Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

| | |
|-------------------|--|
| Eyes | May cause serious irritation. |
| Skin | May cause redness, rash and mild irritation. |
| Inhalation | Exposure to the rosin flux fumes may cause coughing, sore throat, wheezing and breathing difficulties. |
| Ingestion | Low toxicity |
| Chronic | Prolonged or repeated exposure to the rosin flux oxides may cause sensitization and asthma. |

Acute Toxicity (Lethal Exposure Concentrations)

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|----------------------|---------------------|---------------------|------------------------|
| paraffin oils | Not available | Not available | Not available |
| rosin, colophony | >7 600 mg/kg Rat | >2 000 mg/kg Rat | Not available |
| suberic acid | Not available | Not available | Not available |
| succinic acid | 2 260 mg/kg Rat | Not available | Not available |

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDSs were also consulted.

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RA ROSIN FLUX PASTE**Other Toxicological Effects**

| | |
|---|---|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Suberic acid and succinic acid can cause serious and irritating effects to the eyes. |
| Respiratory and skin sensitization (allergic reactions) | Pure rosin is not a skin sensitizer according to reliable animal studies. However, the oxidized forms of rosin are sensitizers. Because of epidemiological studies and of the mandatory skin classification according to Annex VI in Europe, the classifications of skin and respiratory sensitizer are maintained. |
| Carcinogenicity (risk of cancer) | Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP. |
| Mutagenicity (risk of heritable genetic effects) | Based on available data, the classification criteria are not met. |
| Reproductive Toxicity (risk to sex functions) | Based on available data, the classification criteria are not met. |
| Teratogenicity (risk of fetus malformation) | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

The paraffin oil is classified as a category 4 aquatic environmental hazard.

Based on available data for rosin, suberic acid, and succinic acid the toxicity for the aquatic environment according to GHS classification criteria.

Acute Ecotoxicity

Based on available data, the classification criteria are not met.

Chronic Ecotoxicity

Based on available data, the classification criteria are not met.

Biodegradability

Not available

Other Effects

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, regional, national, and international regulations.

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RA ROSIN FLUX PASTE**Section 14: Transport Information****Ground****Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**

Not regulated

Air**Refer to ICAO-IATA Dangerous Goods Regulations.**

Not regulated

Sea**Refer to IMDG Regulations.**

Not regulated

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

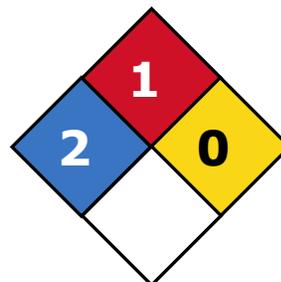
Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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8342**RA ROSIN FLUX PASTE****USA****Other Classifications****HMIS® RATING**

| | | |
|-----------------------------|----------|----------|
| HEALTH: | * | 2 |
| FLAMMABILITY: | | 1 |
| PHYSICAL HAZARD: | | 0 |
| PERSONAL PROTECTION: | | |

NFPA® 704 CODES

Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain ingredients that subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA)

This product does not contain any substances known to be listed in California.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronic equipment, and it is therefore not governed by this regulation.

8342**RA ROSIN FLUX PASTE****Section 16: Other Information****SDS Prepared by** Regulatory Department**Date of Creation** 01 August 2023**Supersedes** 05 March 2020**Reason for Changes:** Addition of new size.**Reference**

1) ACGIH 2023 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2023).

Abbreviations

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists (USA) |
| EC50 | Half maximal effective concentration |
| EL50 | Half maximal effective loading |
| NOELR | No observable effect loading ratio |
| GHS | Globally Harmonized System of Classification of Labeling of Chemicals |
| LC50 | Lethal Concentration 50% |
| LCLo | Lowest published lethal concentration |
| LD50 | Lethal Dose 50% |
| PEL | Permissible Exposure Limit |
| STEL | Short-Term Exposure Limit |
| TCLo | Lowest published toxic concentration |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Content |

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8342**RA ROSIN FLUX PASTE**

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

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