

8341

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** 8341**Other Means of Identification:** No Clean Flux Paste**Related Part #** 8341-10ML, 8341-10MLCA, 8341B-10ML, 8341-50ML

### Recommended Use and Restriction on Use

**Use:** No clean flux paste**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA**Distributor**Mouser Electronics  
1000 North Main Street  
Mansfield, TX 76063  
USA

+1-800-340-0772

+1-905-331-1396

**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)[info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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

# 8341

## Section 2: Hazard(s) Identification


### Classification of the Hazardous Material

#### GHS Categories

Criteria	Category	Signal Word	Pictograms
Eye Corrosion	1	Danger	Corrosion

*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

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H318: Causes serious eye damage
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P280	Wear eye protection.
<b>Response</b>	<b>Precautionary Statements</b>
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
<b>Disposal</b>	<b>Precautionary Statements</b>
Not applicable	Not applicable

*Section continued on the next page*

**8341**
**Hazards Not Otherwise Classified**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Rosin Solder Fumes	Oxidized rosin-based solder fumes are capable of eliciting occupational asthma in some pre-sensitized individuals.	Warning	Not applicable

**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
65997-06-0	rosin, hydrogenated	42%
124-04-9	adipic acid	9%
95-14-7	benzotriazole	1%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>eye corrosion</i>
<b>Response</b>	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>IF INHALED</b>	P304 + P340
<b>Immediate Symptoms</b>	<i>IF exposed to solder fumes: coughing</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.
<b>IF ON SKIN</b>	P302 + P352, P333 + P313
<b>Immediate Symptoms</b>	<i>redness, mild irritation</i>
<b>Response</b>	Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
<b>IF SWALLOWED</b>	P301 + P330, P331
<b>Immediate Symptoms</b>	<i>Low toxicity—nausea, sore throat, diarrhea, dizziness, drowsiness</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting.

**8341****Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use extinguishing media suitable for surrounding materials. In presence of molten metal, do NOT use water on fire.
<b>Specific Hazards</b>	Not flammable or combustible but burns if involved in a fire. In a fire, this product can release irritating flux fumes.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), solder flux pyrolysis products, and nitrogen oxides (NO <sub>x</sub> ).
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

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

**8341**
**Section 7: Handling and Storage**
**Prevention**

Keep out of reach of children.

Avoid breathing fumes or vapors. Use only outdoors or in well-ventilated area.

For frequent or prolonged soldering processes, use of a local exhaust system to avoid exposure to thermal decomposition products. For example, use fume cabinet, a hood on a flexible arm, or tip-mounted fume extraction system on the soldering iron.

**Handling**

Wear eye protection.

Wash hands thoroughly after handling.

**Storage**

Not applicable

**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)
adipic acid	ACGIH <sup>a)</sup>	5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	5 mg/m <sup>3</sup>	Not established
	Canada BC	5 mg/m <sup>3</sup>	Not established
	Canada ON	5 mg/m <sup>3</sup>	Not established
	Canada QC	Not established	Not established

*Note:* The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long-term permissible exposure limits (PEL) for 8 h.

a) URT irr (Upper Respiratory Track Irritant); CNS impair

*Section continued on the next page*

## 8341

### 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 or dust or flux decomposition fumes can occur.

**RECOMMENDATION:** For frequent or prolonged soldering processes, use of a local exhaust system to avoid exposure to thermal decomposition products. For example, use fume cabinet, a hood on a flexible arm, or tip-mounted fume extraction system on the soldering iron.

### 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

Thermal resistant gloves should be worn instead if contact with molten metal is expected.

#### 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 thoroughly with water and soap after handling.

**8341**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Solid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Yellow paste	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	1.0
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Not available
<b>Initial Boiling Point</b>	Not available	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	Not available	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Not available	<b>Viscosity @40 °C</b>	Not available

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Hydrogenated rosin is oxidation resistant; however, it may still contain some residual of unmodified resin acids that can be auto-oxidize in contact with air and sunlight. The resulting oxidation by-products may cause sensitization.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Thermal degradation produces solder flux pyrolysis by-products. Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**8341**
**Section 11: Toxicological Information**
**Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Causes redness and serious irritation.
<b>Skin</b>	Low toxicity: May cause skin redness or mild irritation.
<b>Inhalation</b>	Low toxicity: Exposure to the flux fumes may cause coughing.
<b>Ingestion</b>	Low toxicity—abdominal pain, nausea, and vomiting
<b>Chronic</b>	Not available

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
rosin, hydrogenated	>2 000 mg/kg Rat	>2 000 mg/kg Rat	Not available
adipic acid	5 560 mg/kg Rat	7 940 mL/kg Rabbit	>7.7 mg/L 4 h Rat (mist)
benzotriazole	500 mg/kg Rat	Not available	Not available
ATE Mixture	3 243 mg/kg	4 580 mg/kg	86 mg/L (mist)

*Note:* Toxicity data from the ECHA database were consulted. The data from supplier SDS were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Adipic acid causes eye corrosion. Benzotriazole causes serious eyes irritation.
<b>Respiratory and skin sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.

*Section continued on the page*

**8341**

<b>Carcinogenicity</b> (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	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.

Benzotriazole is classified as a category 2 aquatic chronic environmental hazard.

Based on available data for rosin and adipic acid, the GHS environmental toxicity classification criteria are not met.

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

**Biodegradability**

Not available

**Other Effects**

Not available

**8341****Section 13: Disposal Considerations**

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

**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 2023.

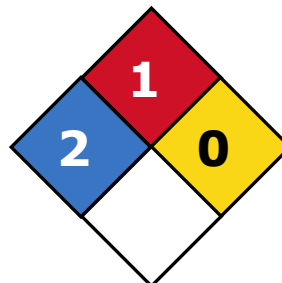
*Section continued on the next page*

**8341****USA****OSHA Hazard Communication Standard (29 CFR Part 1900)**

The safety data sheet and label comply with HCS 2024.

**Other Classifications****HMIS<sup>®</sup> RATING**

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA<sup>®</sup> 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.

*Section continued on the next page*

**8341****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 electronics equipment and is therefore not governed by this regulation.

**Section 16: Other Information**

**Prepared by the** Regulatory Affairs Department

**Date of Creation** 20 February 2025

**Supersedes** 11 December 2024

**Reason for Changes:** Minor corrections

**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)
ATE	Acute Toxicity Estimate
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

*Section continued on the next page*

**8341**

**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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

Phone: +1-905-331-1396

**Mailing Addresses** *Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

**Disclaimer** This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.