

NO CLEAN FLUX PASTE

8341

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: No Clean Flux Paste

SDS Code: 8341

Related Part # 8341-10ML

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

MG Chemicals (Head Office)
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E-MAIL support@mgchemicals.com

E-MAIL info@mgchemicals.com

WEB www.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 CHEMTREC ☎: **+1-800-424-9300**

For emergencies involving dangerous goods: Collect 24/7
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or ***666** on cellular phones

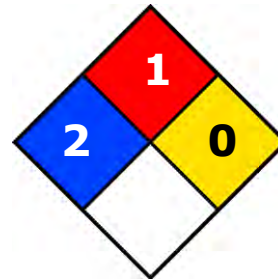
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Section 2: Hazard(s) Identification
Classification of the Hazardous Material
GHS Categories

Criteria	Category	Signal Word	Pictograms
Eye Damage	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.

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)

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Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H318: Causes serious eye damage
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P280	Wear protective eye protection/face protection.
P264	Wash hands thoroughly after handling.
Response	Precautionary Statements
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/doctor.

Hazards Not Otherwise Classified

Not applicable.

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%Weight
65997-05-9	rosin, polymerized	56%
112-59-4	2-(2-hexyloxyethoxy)ethanol	25%
9004-98-2	ethoxylated oleyl alcohol	13%
25038-54-4	polyamide 6	6%

NO CLEAN FLUX PASTE**8341****Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
IF IN EYES	P305 + P351 + P338, P310
Immediate Symptoms	<i>redness, tearing, pain, eye damage</i>
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
IF INHALED	P304 + P340
Immediate Symptoms	<i>IF Exposed to Solder Fumes: headaches, nausea, muscular pain</i>
Response	Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN	P303 + P352, P332 + P313
Immediate Symptoms	<i>mild irritation, redness</i>
Response	Wash with plenty of water/shower. If skin irritation occurs: Get medical advice/attention.
IF SWALLOWED	P301 + P330 + P331
Immediate Symptoms	<i>abdominal pain, nausea, vomiting, diarrhea</i>
Response	Rinse mouth. Do not induce vomiting.

NO CLEAN FLUX PASTE**8341****Section 5: Fire-Fighting Measures**

In case of fire	P370 + P378
Extinguishing Media	Use dry chemical, carbon dioxide, alcohol resistant foam or water spray to extinguish. Use water spray to cool containers.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. Vapors may accumulate in low-lying areas.
Combustion Products	Produces carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Remove all sources of ignition.
Environmental Precautions	Avoid releasing to the environment.
Containment Methods	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
Disposal Methods	Dispose spill waste according to Section 13.

NO CLEAN FLUX PASTE**8341****Section 7: Handling and Storage**

Prevention	Do not eat, drink, or smoke when using this product.
Handling	Wear protective gloves/eye protection. Wash hands thoroughly after handling.
Storage	Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection**Routes of Entry**

Eye contact, Inhalation, and Skin contact

Substances with Occupational Exposure Limit Values

Contains no substances with occupational exposure limits.

Note: The ACGIH², OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database¹ of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted.

Engineering Controls

Ventilation	General ventilation is adequate for normal use; keep airborne exposure as low as possible. Manufacturer's Note: During soldering, use of a <u>local exhaust system</u> is highly recommended 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: Use safety glasses with lateral protection.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. RECOMMENDATION: Use nitrile, polyvinyl chloride (PVC), butyl rubber, or other chemically resistant gloves.
Respiratory Protection	Not normally required, but if exposed to high levels of mist/vapors/fumes, wear respirator such as a half-mask respirator.

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Recommendation: Consult your local safety supply store to ensure your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is 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 with water and soap after use.

Section 9: Physical and Chemical Properties

Physical State	Solid, paste	Lower Flammability Limit	Not available
Appearance	Amber	Upper Flammability Limit	Not available
Odor	Mild	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	Not Available
pH	Not available	Specific Gravity @25 °C	1.03
Freezing/Melting Point	>100 °C [>212 °F]	Solubility in Water	Partially
Boiling Point	>256°C [>493 °F]	Partition Coefficient	Not available
Flash Point	>116 °C [>241 °F]	Auto-ignition Temperature	>227 °C [>441 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability (solid, gas)	Not available	Viscosity @40 °C	Not available

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Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances
Incompatibilities	Strong oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Routes of Exposure

Eyes, ingestion, inhalation, and skin

Symptoms Summary

Eyes	Causes redness, tearing, pain, or eye damage if splashed in eyes or exposed to vapors.
Skin	May cause redness and mild skin irritation.
Inhalation	Exposure to soldering fumes may cause headaches and nausea. Severe overexposure may cause muscular pain.
Ingestion	It may cause abdominal pain, nausea, vomiting, diarrhea. (See inhalation symptoms.)
Chronic	Prolonged skin contact may cause skin irritation with pain.

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Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
rosin, polymerized	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available
2-(2-hexyloxyethoxy) ethanol	2 400 mg/kg Rat	1 500 µL/kg Rabbit	Not available
ethoxylated oleyl alcohol	Not available	Not available	Not available
polyamide 6	Not available	Not available	11 g/m ³ 30 min Rat

Note: Representative toxicity data from by RTECS database² of the Canadian Centre for Occupational Health and Safety (CCOHS) data from supplier (M)SDS were also consulted.

Other Toxicological Effects
Skin corrosion/irritation

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

Serious eye damage/irritation

The 2-(2-hexyloxyethoxy)ethanol component causes serious eye damage according to in vivo animal studies.

Respiratory and skin sensitization (allergic reactions)

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

Carcinogenicity
(risk of cancer)

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

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

Mixture does not contain components classified as a Cat 1 aspiration hazards and kinematic viscosity at 40 °C is expected to be >20.5 mm²/s; therefore, the mixture is not a Cat 1 aspiration hazard.

NO CLEAN FLUX PASTE**8341****Section 12: Ecological Information**

The IMDG Code criteria and the raw-material (M)SDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Effects

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, provincial, state, and federal regulations.

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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

WHMIS 1988 Classification



D2B – Toxic Other (Eye Irritant)

Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

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NO CLEAN FLUX PASTE**8341****USA****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, Sept 2, 2011 revision, USA).

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

Europe**RoHS**

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

WEEE

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

Section 16: Other Information

SDS Prepared by Michel Hachey

Date of Revision 17 March 2015

Supersedes 20 January 2015

Reason for Changes: Changed to comply with WHMIS 2015 as well as HCS 2012.

Reference

1) ACGIH *2013 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 (2013).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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NO CLEAN FLUX PASTE**8341****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

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.

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