

PEELABLE SOLDER MASK

862

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Peelable Solder Mask**MSDS Code:** 862**Related Part #** 862-150ML, 862-250ML

### Recommended Use and Restriction on Use

**Use:** temporary masking for circuit boards**Uses Advised Against:** Not applicable

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1220 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
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### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidentsUSA or CANADA: Call CHEMTREC ☎: **1-800-424-9300****For emergencies involving dangerous goods;** Collect 24/7CANADA: Call CANUTEC ☎: **1-613-996-6666** or **\*666** on cellular phones


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**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**GHS Categories**

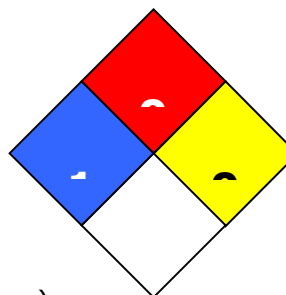
Criteria	Category	Signal Word	Pictograms
Skin irritation	2	Warning	

**Other Classifications**

**HMIS® RATING**

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


**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

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

**Label Elements**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H315: Causes skin irritation
	<b>Precautionary Statements</b>
P280	Wear protective gloves/eye protection.
P305 + P351 + P358	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 + P361 + P353	IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

**Other Hazards**

Not applicable.

**PEELABLE SOLDER MASK****862****Section 3: Hazardous Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
27401-61-2	acrylic latex polymer	75-85%
9064-13-5	alkoxylated alkyl phenol	7-10%
8029-76-3	LECIITHIN	1-5%
68515-40-2	C7-C9 alkyl benzyl phthalate	1-5%
97953-25-8	2-propenoic acid, telomer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydrogen sulfite, sodium salt	1-5%

*Note:* The first four components are not classified as hazardous materials.

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**Section 4: First Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF ON SKIN</b>	P302
<b>Symptoms</b>	Immediate: <i>irritation, redness</i>
<b>Response</b>	P352: Rinse skin with water/shower. P362: Take off contaminated clothing and wash it before reuse.
<b>If skin irritation, rash occurs, or concerned</b>	P313: Get medical advice/attention.
<b>IF IN EYES</b>	P305
<b>Symptoms</b>	Immediate: <i>irritation, redness, inflammation of the outer eye layers</i>
<b>Response</b>	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing.
<b>If eye irritation persists</b>	P313: Get medical attention.
<b>IF INHALED</b>	P304 ( <i>Not a likely route of exposure under normal use</i> )
<b>Symptoms</b>	Immediate: <i>respiratory system irritation</i>
<b>Response</b>	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
<b>If feeling unwell</b>	P312: Call a POISON CENTRE/doctor.
<b>IF SWALLOWED</b>	P301 ( <i>Not a likely route of exposure under normal use</i> )
<b>Symptoms</b>	Immediate: <i>irritation</i>
<b>Response</b>	P330: Rinse mouth. P331: Do NOT induce vomiting.
<b>If feeling unwell</b>	P312: Call a POISON CENTRE/doctor.

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**Section 5: Fire Fighting Measures**

<b>Auto-ignition Temperature</b>	Not available	<b>Flash Point</b>	Not available	<b>LFL [LEL]<sup>a)</sup></b>	Not available
				<b>UFL [UEL]</b>	available

<b>In case of fire</b>	P370
<b>Response</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam to extinguish.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ) and smoke
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus for fire fighting
<b>General Information</b>	Will burn if involved in a fire. No hazardous decomposition product expected.

a) LFL = Lower Flammability [or Explosion] Limit (in volume %);  
UFL = Upper Flammability [or Explosion] Limit (in volume %)

**Section 6: Accidental Release Measures**

**Personal Protection:** See Section 8.

**Containment** Not applicable

**Cleaning** Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel wetted with alcohol (or other suitable organic solvent) and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.

**Disposal** Dispose of spill waste according to Section 13.

**PEELABLE SOLDER MASK****862****Section 7: Handling and Storage****Prevention** Do not get in eye, on skin, or on clothing.

Avoid breathing fume/vapors.

Do not eat, drink, or smoke when using this product.

**Handling** Wear protective gloves/clothing/eye protection.

Wash hands thoroughly after handling.

**Storage** Store in a well-ventilated area. Keep cool.**RECOMMENDATION:** Keep in a dry and clean area, away from incompatible substances.**Section 8: Exposure Controls/Personal Protection****Routes of Entry**

Eyes, ingestion, inhalation, and skin

**Substances with Occupational Exposure Limit Values**

No ingredients are listed under the ACGIH<sup>2</sup>, OSHA, and Canadian provinces exposure limits. MG Chemicals also consulted international limits published in the RTECS database<sup>1</sup> as well as the limits suggested in suppliers' SDS.

**Engineering Controls****Ventilation** Keep airborne concentrations as low as possible to avoid irritation by inhalation.**Personal Protective Equipment****Eye protection** Wear appropriate protective eyeglasses or chemical safety goggles.**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).**Skin Protection** Wear appropriate protective clothing to prevent skin contact.**RECOMMENDATION:** Use of protective gloves in butyl rubber, latex, neoprene, or other chemically resistant gloves.**Respiratory Protection** If exposed to mist or working in enclosed area, wear respirator such as a half-mask respirator.**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Pink
<b>Odor</b>	Mild	<b>Odor Threshold</b>	Not established
<b>pH</b>	Not available	<b>Specific Gravity</b>	1.0
<b>Solubility in Water</b>	Miscible	<b>Melting Point</b>	Not established
<b>Boiling Point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	None	<b>Vapor Pressure @ 20 °C</b>	Not available
<b>Lower Flammability Limit</b>	Not available	<b>Upper Flammability Limit</b>	Not available
<b>Auto-ignition Temperature</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Viscosity @25 °C</b>	29 000 cSt	<b>Vapor Density</b>	Not available
<b>Partition Coefficient</b>	Not established		

**Section 10: Stability and Reactivity**

<b>Stabilities</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Flames and incompatible substances
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, strong bases.
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

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**Section 11: Toxicological Information**

**Routes of Exposure**

Eyes, Ingestion, Inhalation, and Skin

**Exposure Routes and Symptoms Summary**

- Eyes** May cause mild eye irritation. May also cause eye redness or conjunctivitis (pink eye).
- Skin** May cause skin irritation.
- Inhalation** May cause mild irritation in large doses.
- Ingestion** May cause nausea and or diarrhea. No other acute toxicity effects known.
- Chronic** Repeated or prolonged inhalation may cause nose, throat and lung irritation.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>	<b>TCLo inhalation</b>
acrylic latex polymer	Not available	Not available	Not available	Not available
alkoxylated alkyl phenol	>5 000 mg/kg Rat <sup>a)</sup>	>3 000 mg/kg Rabbit <sup>a)</sup>	Not available	Not available
LECIITHIN	Not available	Not available	Not available	Not available
C7-C9 alkyl benzyl phthalate	Not available	Not available	Not available	Not available
b)	Not available	Not available	Not available	Not available

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier MSDS were also consulted.

a) Data from supplier MSDS

b) 2-propenoic acid, telomer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydrogen sulfite, sodium salt

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<b>Skin corrosion/irritation</b>	Skin irritant
<b>Serious eye damage/irritation</b>	May cause mild eye irritation or conjunctivitis.
<b>Sensitization</b> (allergic reactions)	No data available
<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)	No data available
<b>Reproductive Toxicity</b> (risk to sex functions)	No data available
<b>Teratogenicity</b> (risk of fetus malformation)	No data available
<b>STOT-single exposure</b>	No data available
<b>STOT-repeated exposure</b>	No data available
<b>Aspiration hazard</b>	Not classified as aspiration hazard. Does not contain known aspiration toxicants and the Viscosity at 40 °C is >>20.5 mm <sup>2</sup> /s.

**Section 12: Ecological Information**

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

**Acute Ecotoxicity**

No data available

**Chronic Ecotoxicity**

No data available

**Biodegradability**

No data available

**Section 13: Disposal Information**

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.

**PEELABLE SOLDER MASK****862****Section 14: Transport Information****Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations); **USA CFR 49 Regulations** (Parts 100 to 185). **ADR** (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and **ADN** (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

Not regulated for transport

**Air**

**Refer to IATA Dangerous Goods Regulations.**

Not regulated for transport

**Sea**

**Refer to IMDG regulations.**

Not regulated for transport

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*Note:* Component supplier SDS transportation sections and labeling were consulted.

**Section 15: Regulatory Information****Canada****WHMIS Classification**

Not classified as a hazardous material under WHMIS

**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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**PEELABLE SOLDER MASK****862****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 ingredients that are listed as hazardous air pollutants.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

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

This product does not contain ingredients subject to declaration or reporting requirements under SARA 313 or CERCLA.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**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 Issue** 29 April 2015**Supersedes** 01 May 2013**Reason for Changes:** Added a part number in section 1.**References**

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

2) ACGIH 2011 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 (2011).

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**PEELABLE SOLDER MASK****862****Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

GHS: Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

LD50 Lethal Dose 50%

N/A Not Applicable

N/E Not Estimated

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

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

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