

Safety Data Sheet

according to WHS Regulations

* 1 Identification

· Product identifier

· Trade name: 835

- Other Means of Identification: Rosin Flux
- Related Part Number: 835-Liquid, 835-100ML, 835-100MLCA, 835-1L, 835-4L, 835-20L

· Relevant identified uses of the substance or mixture and uses advised against

· Application of the substance / the mixture

- Flux
- Activated rosin flux

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

MG Chemicals Ltd. (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 905-331-1396
info@mgchemicals.com

Mektronics Australia Pty Ltd
5 Prince William Drive
Seven Hills
NSW 2147
Australia
1300 788 701
www.mektronics.com.au
sales@mektronics.com.au

· Further information obtainable from: sds@mgchemicals.com

· Emergency telephone number:

Verisk 3E (Access Code: 335388)
+61 1 800 686 951
+61 280363166

* 2 Hazard(s) Identification

· Classification of the substance or mixture

Flammable liquids – Category 2	H225 Highly flammable liquid and vapour.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Skin sensitisation – Category 1	H317 May cause an allergic skin reaction.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.
Specific target organ toxicity (single exposure) – Category 3	H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

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· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Rosin, polymerized (45–51 %)
butanol (25–28 %)
ethanol (23–26 %)

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261 Avoid breathing fumes and vapors.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, and eye protection.
P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

Warning! Oxidized rosin-based solder fumes are capable of inciting occupational asthma in some pre-sensitized individuals.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable
- **vPvB:** Not applicable

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

65997-05-9	Rosin, polymerized ⚠ Skin sensitisation – Category 1, H317	45-51%
78-92-2	butanol ⚠ Flammable liquids – Category 3, H226; ⚠ Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335; Specific target organ toxicity (single exposure) – Category 3, H336	25-28%
64-17-5	ethanol ⚠ Flammable liquids – Category 2, H225; ⚠ Eye damage/irritation – Category 2A, H319	23-26%

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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.
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* 4 First Aid Measures

- **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.
If feeling unwell: Call a POISON CENTRE or doctor.

- **After skin contact:**

Take off immediately all contaminated clothing.
Wash with plenty of soap and water.

- **After eye contact:**

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

- **After swallowing:**

Rinse mouth.
Do NOT induce vomiting.
If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

See section 11 for additional information.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

* 5 Fire Fighting Measures

- **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture**

Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.

Prevent fire-fighting wash from entering waterway or sewer system.

- **Hazardous combustion products:**

Carbon Oxides (CO_x)
by-products of pyrolysis of abietic resin acids

- **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid breathing the fumes or vapors.

Remove or keep away all sources of extreme heat or open flames.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Collect liquid in a sealable, chemical-resistant container.
 Wash residue with a paper towel and place dirty towels in container.
 Use soap and water to remove the last traces of residue.
- **Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

*** 7 Handling and Storage**

- **Handling:**
 - **Precautions for safe handling**
 Wear protective gloves and eye protection.
 Wash hands and exposed skin thoroughly after handling.
 Take off contaminated clothing and wash it before reuse.
 Avoid breathing mist, spray, or vapors.
 Use only outdoors or in a 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.
 - **Information about fire - and explosion protection:**
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Use explosion-proof apparatus / fittings and spark-proof tools.
 Ground and bond container and receiving equipment.
- **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
 Store in a cool location.
 Keep in a dry and clean area, away from incompatible substances
 - **Information about storage in one common storage facility:** Not required
 - **Further information about storage conditions:**
 Keep container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Store locked up.
- **Specific end use(s)** See section 1.2

*** 8 Exposure controls and personal protection**

- **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

Ingredients with limit values that require monitoring at the workplace:	
78-92-2 butanol	
WES	Long-term value: 303 mg/m ³ , 100 ppm
64-17-5 ethanol	
WES	Long-term value: 1880 mg/m ³ , 1000 ppm

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- **Additional information:**
The lists valid during the making were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.
- **Personal protective equipment:**
 - **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - **Respiratory protection:**
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.
For over-exposures up to 10 x OEL of mist, vapors, and spray, wear respirator such as a half-mask respirator with organic vapor cartridges.
Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.
Advice should be sought from respiratory protection specialists.
 - **Protection of hands:**
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

* 9 Physical and Chemical Properties

· Physical state	Liquid
· Appearance:	
· Form:	Viscous
· Colour:	Amber coloured
· Odour:	Alcohol-like
· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined

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· Initial boiling point and boiling range:	≥78 °C
· Flash point:	13 °C
· Flammability	Highly flammable.
· Auto-ignition temperature:	390 °C
· Decomposition temperature:	Not determined
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	3 Vol %
· Upper:	16 Vol %
· Vapour pressure at 20 °C:	42 hPa
· Relative density at 25 °C:	0.93
· Vapor density (air=1):	>1.5
· Evaporation rate	1.9 (ButAc=1)
· Solubility in / Miscibility with	
· water:	Partly miscible.
· Partition coefficient: n-octanol/water:	Not determined
· Viscosity:	
· Dynamic:	Not determined
· Kinematic:	Not determined
· Solvent content:	
· Organic solvents:	48–54 %
· VOC (EC)	48–54 %
· Solids content:	0.0 %
· Other information	No further relevant information available.
· Particle characteristics	Not applicable.

* 10 Stability and Reactivity

· **Reactivity**

Polymerized rosin is oxidation resistant but may contains residual unmodified resin acids that can be auto-oxidize in contact with air and sunlight. Some slow auto-oxidation can also occur after long storage durations. The oxidation by-products may cause sensitization.

· **Chemical stability** Chemically stable at normal temperatures and pressures.

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid**

Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.

· **Incompatible materials:**

Strong oxidizing agents
Strong acids

· **Hazardous decomposition products:**

Hazardous combustion products: see section 5.

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Thermal degradation produces oxidized rosin by-products that are known skin and respiratory sensitizers. At soldering temperatures, it may generate pyrolysis products that include acetone, aliphatic aldehydes, methyl alcohol, methane, ethane, various abietic acids (the major components of rosin), CO and CO₂.

* 11 Toxicological Information

· Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

78-92-2 butanol		
Oral	LD50	6,480 mg/kg (rat)
64-17-5 ethanol		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/L (rat)

· Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
- **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.

· Summary of Effects and Symptoms by Routes of Exposure

- **Eyes:**
watering
eye prickling
swelling
redness, serious irritation
- **Skin:**
redness
dry skin
- **Inhalation:**
irritation of the respiratory tract
cough
dizziness or drowsiness
sore throat
- **Swallowed:**
irritation to the mouth, throat, esophagus, and stomach
see inhalation symptoms
- **Interactive effects**
 - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

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Repeated or prolonged inhalation exposure to solder pyrolysis by-products may cause certain sensitive individuals to develop asthma and eczema symptoms.

*** 12 Ecological Information**

· **Toxicity**

· Aquatic toxicity:	
78-92-2 butanol	
EC50/ 48 h	2,300 mg/L (daphnia)
LC50 96h	3,670 mg/L (minnow)
64-17-5 ethanol	
LC50	>1,000 mg/L (fish)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Other adverse effects** No further relevant information available.

*** 13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation** This material and its container must be disposed of as hazardous waste.

· **Uncleaned packaging:**

· **Recommendation:**

Containers may still present a chemical hazard/ danger when empty.

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

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

*** 14 Transport information**

· UN-Number	
· ADG, IMDG, IATA	UN1987
· UN proper shipping name	
· ADG, IMDG	ALCOHOLS, N.O.S. (ethanol, butanol)
· IATA	Alcohols, n.o.s. (ethanol, butanol)

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<p>· Transport hazard class(es)</p> <p>· ADG, IMDG, IATA</p>	
	
<p>· Class</p> <p>· Label</p>	<p>3 Flammable liquids.</p> <p>3</p>
<p>· Packing group</p> <p>· ADG, IMDG, IATA</p>	
<p>II</p>	
<p>· Environmental hazards:</p>	
<p>Not applicable</p>	
<p>· Special precautions for user</p>	
<p>Not applicable</p>	
<p>· Hazard identification number (Kemler code):</p> <p>· EMS Number:</p> <p>· Stowage Category</p>	<p>33</p> <p>F-E,S-D</p> <p>B</p>
<p>· Transport in bulk according to Annex II of Marpol and the IBC Code</p>	
<p>Not applicable</p>	
<p>· Transport/Additional information:</p>	
	
<p>Limited Quantity</p> <p>835-100ML, 835-100MLCA, 835-1L</p>	
<p>-----</p>	
<p>· ADG</p>	
<p>· Limited quantities (LQ)</p> <p>· Excepted quantities (EQ)</p>	<p>1L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p>
<p>· Transport category</p> <p>· Tunnel restriction code</p>	<p>2</p> <p>D/E</p>
<p>-----</p>	
<p>· IMDG</p>	
<p>· Limited quantities (LQ)</p> <p>· Excepted quantities (EQ)</p>	<p>1L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p>
<p>· UN "Model Regulation":</p>	
<p>UN 1987 ALCOHOLS, N.O.S. (ETHANOL, BUTANOL), 3, II</p>	

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals
All ingredients are listed.
· Standard for the Uniform Scheduling of Medicines and Poisons
None of the ingredients is listed.
· Australia: Priority Existing Chemicals
None of the ingredients is listed.

- **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **Seveso category** P5c FLAMMABLE LIQUIDS
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
 - **Date of previous version:** 01.10.2024
 - **Version number of previous version:** 8.02
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flammable liquids – Category 2: Flammable liquids – Category 2
 - Flammable liquids – Category 3: Flammable liquids – Category 3
 - Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
 - Skin sensitisation – Category 1: Skin sensitisation – Category 1
 - Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3
- * **Data compared to the previous version altered.**