

according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

## 1 Identification

- **Product identifier**
- **Trade name:** 835
- **Other Means of Identification:** Flux Colophane
- **Related Part Number:** 835-Liquid, 835-100ML, 835-MLCA, 835-1L, 835-4L, 835-20L
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Activated rosin flux
- **Details of the supplier of the safety data sheet** M.G. Chemicals Ltd.
- **Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 800-340-0772

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

- **Further information obtainable from:** sds@mgchemicals.com
- **Emergency telephone number:**  
CHEMTREC Australia: + (61) 2-9037-2994  
Other emergency telephone number: +(1) 703-527-3887

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**



flame

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-H336

May cause respiratory irritation.  
May cause drowsiness or dizziness.

(Contd. on page 2)

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 1)

· **Label elements**· **GHS label elements**

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

· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger· **Hazard-determining components of labelling:**

Rosin, polymerized ( $\geq 30$ – $\leq 60$  %)

butanol ( $\geq 20$ – $< 30$  %)

· **Hazard statements**

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, and eye protection.

In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**· **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	$\geq 30$ – $\leq 60$ %
⚠ Skin sensitisation – Category 1, H317	
78-92-2 butanol	$\geq 20$ – $< 30$ %
⚠ Flammable liquids – Category 3, H226; ⚠ Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335-H336	
64-17-5 ethanol	$\geq 10$ – $< 30$ %
⚠ Flammable liquids – Category 2, H225; ⚠ Eye damage/irritation – Category 2A, H319	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

AU

(Contd. on page 3)

**according to WHS Regulations**

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 2)

#### 4 First Aid Measures

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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.
- **Protective equipment:** No special measures required.

#### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 4)

AU

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 3)

- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:**  
No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
**78-92-2 butanol**  
WES Long-term value: 303 mg/m<sup>3</sup>, 100 ppm  
**64-17-5 ethanol**  
WES Long-term value: 1880 mg/m<sup>3</sup>, 1000 ppm
- **Additional information:** The lists valid during the making were used as basis.
- **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.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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:**



Tightly sealed goggles

AU

(Contd. on page 5)

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 4)

## 9 Physical and Chemical Properties

· <b>General Information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Colour:</b>	According to product specification
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	78 °C
· <b>Flash point:</b>	13 °C
· <b>Flammability (solid, gas):</b>	Highly flammable.
· <b>Auto-ignition temperature:</b>	390 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	3 Vol %
· <b>Upper:</b>	16 Vol %
· <b>Vapour pressure at 20 °C:</b>	59 hPa
· <b>Vapour pressure at 50 °C:</b>	280 hPa
· <b>Density at 20 °C:</b>	0.93 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	48–54 %
· <b>VOC (EC)</b>	48–54 %
· <b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

AU

(Contd. on page 6)

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 5)

**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)
- **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.

**12 Ecological Information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

AU

(Contd. on page 7)

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 6)

**14 Transport information**

- **UN-Number** UN1987
- **ADG, IMDG, IATA**
- **UN proper shipping name** 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), BUTANOLS)
- **ADG** ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), BUTANOLS)
- **IMDG** Alcohols, n.o.s. (ETHANOL, BUTANOLS)
- **IATA**
- **Transport hazard class(es)**
- **ADG, IMDG, IATA**



- **Class** 3 Flammable liquids.
- **Label** 3
- **Packing group** II
- **ADG, IMDG, IATA** Not applicable.
- **Environmental hazards:** Warning: Flammable liquids.
- **Special precautions for user**
- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E,S-D
- **Stowage Category** B
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**

- 
- **ADG**
  - **Limited quantities (LQ)** 1L
  - **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
  - **Transport category** 2
  - **Tunnel restriction code** D/E

- 
- **IMDG**
  - **Limited quantities (LQ)** 1L
  - **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml
  - **UN "Model Regulation":** UN 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), BUTANOLS), 3, II

AU

(Contd. on page 8)

## according to WHS Regulations

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

Trade name: 835

(Contd. of page 7)

**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.

· **GHS label elements**

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

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

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

Rosin, polymerized ( $\geq 30$ – $\leq 60$  %)

butanol ( $\geq 20$ – $< 30$  %)

· **Hazard statements**

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, and eye protection.

In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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.

(Contd. on page 9)

AU

**according to WHS Regulations**

Printing date 10.05.2024

Version number 6

Revision: 10.05.2024

**Trade name: 835**

(Contd. of page 8)

*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:** Product safety department.

· **Contact:** sds@mgchemicals.com

· **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.**

AU