

* 1 Identification

· Product identifier

· Trade name: 824

· **Other Means of Identification:** Isopropyl Alcohol: Electronics Cleaner

· Related Part Number:

824-Liquid, 824-100ML, 824-500ML, 824-1L, 824-4L, 824-20L, 824-205L, 824-1G, 824-100MLCA, 824-1LCA, 824-1LX6, 824-500MLCA

· CAS Number:

67-63-0

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

· Application of the substance / the mixture

Electronics cleaner
Cleaner for electronics

· 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
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.

Specific target organ toxicity (single exposure) –
Category 3

H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

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

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.08.2025

Version number 7.02

Revision: 28.08.2025

Trade name: 824

(Contd. of page 1)

· **Hazard pictograms**



· **Signal word** Danger

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

Propan-2-ol (99.7 %)

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

* 3 Composition and Information on Ingredients

· **Chemical characterisation: Substances**

· **CAS No. Description**

67-63-0 Propan-2-ol

· **Identification number(s)**

· **EC number:** 200-661-7

· **Index number:** 603-117-00-0

· **Dangerous components:**

67-63-0	Propan-2-ol  Flammable liquids – Category 2, H225;  Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H336	99.7%
---------	--	-------

* 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.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Trade name: 824

(Contd. of page 2)

- **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**
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.
Prevent fire-fighting wash from entering waterway or sewer system.
 - **Hazardous combustion products:** Carbon Oxides (CO_x)
- **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**
Ensure adequate ventilation
Remove or keep away all sources of extreme heat or open flames.
Avoid breathing mist, spray, or vapors.
- **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).
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.

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

Date of issue: 28.08.2025

Version number 7.02

Revision: 28.08.2025

Trade name: 824

(Contd. of page 3)

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.

· **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** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 Propan-2-ol	
WES	Short-term value: 1230 mg/m ³ , 500 ppm Long-term value: 983 mg/m ³ , 400 ppm

· **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:**

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Advice should be sought from respiratory protection specialists.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Trade name: 824

(Contd. of page 4)

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.

· **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.

· **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:	Low viscosity
· Colour:	Colourless
· Odour:	Alcohol-like
· pH-value:	Not determined.
· Melting point/freezing point:	-89.5 °C
· Initial boiling point and boiling range:	82 °C
· Flash point:	12 °C
· Flammability	Highly flammable.
· Auto-ignition temperature:	425 °C
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	2 Vol %
· Upper:	12 Vol %
· Vapour pressure at 20 °C:	43 hPa
· Density at 20 °C:	0.785 g/cm ³
· Relative density at 25 °C:	0.785
· Vapor density (air=1):	2.1

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Trade name: 824

(Contd. of page 5)

· Evaporation rate	1.5 (ButAc=1)
· Solubility in / Miscibility with	
· water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic at 20 °C:	2.43 mPas
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	99.70 %
· VOC (EC)	99.70 %
· Solids content:	0.3 %
· Other information	No further relevant information available.
· Particle characteristics	Not applicable.

* 10 Stability and Reactivity

- **Reactivity** At elevated temperatures, may react with aluminum and generate hydrogen gas.
- **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
Strong bases
Halogenated compounds
Aluminum at temperatures ≥ 49 °C
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 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:		
67-63-0 Propan-2-ol		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/L (rat)

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Trade name: 824

(Contd. of page 6)

- **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** Based on available data, the classification criteria are not met.
- **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 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:**
 - pain
 - redness, serious irritation
 - tearing of the eyes
- **Skin:**
 - redness, may cause mild irritation
 - dry skin
- **Inhalation:**
 - headache
 - narcotic effects
 - weakness
 - dizziness or drowsiness
- **Swallowed:** 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.

* 12 Ecological Information

· **Toxicity**

· Aquatic toxicity:	
67-63-0 Propan-2-ol	
EC50/ 24 h	5,102 mg/L (daphnia)
EC50/ 72 h	>2,000 mg/L (algae)
LC50 96h	9,640 mg/L (minnow)

- **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.

(Contd. on page 8)

Safety Data Sheet
according to WHS Regulations

Date of issue: 28.08.2025

Version number 7.02

Revision: 28.08.2025

Trade name: 824

(Contd. of page 7)

· **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	UN1219
· UN proper shipping name · ADG, IMDG · IATA	ISOPROPANOL (ISOPROPYL ALCOHOL) Isopropanol (isopropyl alcohol)
· Transport hazard class(es) · ADG, IMDG, IATA	 · Class 3 Flammable liquids. · Label 3
· Packing group · ADG, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Not applicable. 33 F-E,S-D B
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

(Contd. on page 9)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.08.2025

Version number 7.02

Revision: 28.08.2025

Trade name: 824

(Contd. of page 8)

<p>· Transport/Additional information:</p>	
 Limited Quantity	
<p>824-100ML, 824-100MLCA, 824-500ML, 824-500MLCA, 824-1L, 824-1X6, 824-1LCA</p>	
<p>· ADG</p>	
<ul style="list-style-type: none"> · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<ul style="list-style-type: none"> · Transport category · Tunnel restriction code 	<p>2 D/E</p>
<p>· IMDG</p>	
<ul style="list-style-type: none"> · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</p>
<p>· UN "Model Regulation":</p>	<p>UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II</p>

15 Regulatory information

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

<p>· Australian Inventory of Industrial Chemicals</p>	<p>Substance is listed.</p>
<p>· Standard for the Uniform Scheduling of Medicines and Poisons</p>	<p>Substance is not listed.</p>
<p>· Australia: Priority Existing Chemicals</p>	<p>Substance is not listed.</p>

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** Substance is not 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.
- H319 Causes serious eye irritation.

(Contd. on page 10)

Safety Data Sheet

according to WHS Regulations

Date of issue: 28.08.2025

Version number 7.02

Revision: 28.08.2025

Trade name: 824

H336 May cause drowsiness or dizziness.

(Contd. of page 9)

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Date of previous version:** 25.10.2024

· **Version number of previous version:** 7.01

· **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

Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**