

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name: 824-400ML

- Other Means of Identification: Isopropyl Alcohol: Electronics Cleaner
- Related Part Number: 824-400ML
- UFI: QKQ0-005J-T007-DWQD

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

- Application of the substance / the mixture Cleaner solvent
- Uses advised against Not available

· 1.3 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

MG Chemicals
Heame House, 23 Bliston Street
Sedgely Dudley DY3 1JA.
United Kingdom
+(44) 1663 362888

MG Chemicalst Ltd.
18-20, Msida Road,
Gzira, GZR 1401
MALTA

- Further information obtainable from: sds@mgchemicals.com

· 1.4 Emergency telephone number:

3E (Access code: 335388)
+(44) 20 3514787
+(1) 760 476 3961
UK Toll free: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

- Aerosol 1 H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- STOT SE 3 H336 May cause drowsiness or dizziness.

(Contd. on page 2)

— GB —

Safety data sheet

according to UK REACH

Trade name: 824-400ML

(Contd. of page 1)

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS02 GHS07

· **Signal word** Danger

Hazard-determining components of labelling:

Propan-2-ol

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties** Endocrine Disruptor substance $\geq 0.1\%$ = none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	71.0%
CAS: 68476-85-7 EINECS: 270-704-2 Index number: 649-202-00-6	Petroleum gases, liquefied ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	29.0%

(Contd. on page 3)

Trade name: 824-400ML

(Contd. of page 2)

· **Additional information:**

Per Annex VI, Part 1, Note: K, CAS Number: 68476-85-7: contains <0,1% w/w 1,3-butadiene contaminants.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of 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 contaminated clothing and wash it before reuse.

Wash with plenty of water or shower.

· **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.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

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

Use water spray to cool containers.

· **5.2 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.

Aerosols containers may erupt with force at temperatures above 50 °C [122 °F].

· **Hazardous combustion products:** Carbon Oxides (CO_x)

· **5.3 Advice for firefighters**

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

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

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

(Contd. on page 4)

Trade name: 824-400ML

(Contd. of page 3)

Avoid breathing mist, spray, or vapors.

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

· **6.3 Methods and material for containment and cleaning up:**

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.

RECOMMENDATION: Use a grounded stainless steel or carbon steel container.

· **6.4 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.

* SECTION 7: Handling and storage

· **7.1 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:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

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.

Protect from heat and direct sunlight.

Do not expose to temperatures exceeding 50 °C [122 °F].

Store locked up.

· **Storage class:** 2 B

· **7.3 Specific end use(s)** See section 1.2

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

67-63-0 Propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

(Contd. on page 5)

Safety data sheet

according to UK REACH

Trade name: 824-400ML

(Contd. of page 4)

68476-85-7 Petroleum gases, liquefied	
WEL	Short-term value: 2180 mg/m ³ , 1250 ppm Long-term value: 1750 mg/m ³ , 1000 ppm Carc (if LPG contains > 0.1% of buta-1.3-diene)

· **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.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as 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:**

Advice should be sought from respiratory protection specialists.

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.

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.

· **Hand protection**

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

For Incidental Contact: Type = Nitrile ; Permeation 3 (> 360 min); Min. Thickness = 0.11 mm ; EN 374-2



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/face protection**



Safety glasses or tightly sealed goggles: EN 166

Trade name: 824-400ML

(Contd. of page 5)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state	Aerosol (gas+liquid)
· Form:	Liquefied gas
· Colour:	Colourless
· Odour:	Alcohol-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	-89.5 °C
· Boiling point or initial boiling point and boiling range	82 °C (67-63-0 Propan-2-ol)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	2 Vol % (67-63-0 Propan-2-ol)
· Upper:	12 Vol % (67-63-0 Propan-2-ol)
· Flash point:	12 °C (67-63-0 Propan-2-ol)
· Auto-ignition temperature:	425 °C (67-63-0 Propan-2-ol)
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Partly miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	43 hPa (67-63-0 Propan-2-ol)
· Relative density:	Not available
· Vapour density (air=1):	>1.5
· Particle characteristics	Not available

· 9.2 Other information

· 9.2.1 Information with regard to physical hazard classes

· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
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· 9.2.2 Other safety characteristics

· Evaporation rate	1.5 (ButAc=1)
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	71.00 %
· VOC (EC)	71.00 %
· Solids content:	0.0 %

SECTION 10: Stability and reactivity

· **10.1 Reactivity** At elevated temperatures, may react with aluminum and generate hydrogen gas.

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

(Contd. on page 7)

Safety data sheet

according to UK REACH

Trade name: 824-400ML

(Contd. of page 6)

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Temperatures above 50 °C, open flames, and incompatible substances
- **10.5 Incompatible materials:**
Oxidizing agents
acid anhydrides
Halogenated compounds
Acids
Aluminum at temperatures ≥ 49 °C
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - **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)

- **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:**
redness, serious irritation
tearing of the eyes
 - **Skin:**
dry skin
redness, may cause mild irritation
 - **Inhalation:**
dizziness or drowsiness
headache
weakness
Severe overexposure may lead to unconsciousness.
 - **Swallowed:** see inhalation symptoms

(Contd. on page 8)

Safety data sheet

according to UK REACH

Trade name: 824-400ML

(Contd. of page 7)

· **Subacute to chronic toxicity:**

- **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.

· **11.2 Information on other hazards**

· Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 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)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

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

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **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.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

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

· European waste catalogue	
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· **Uncleaned packaging:**

· **Recommendation:**

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



(Contd. on page 9)

Trade name: 824-400ML

(Contd. of page 8)

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.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA 	<p>UN1950</p>
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, IMDG · IATA 	<p>AEROSOLS Aerosols, flammable</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p>2 5F Gases. 2.1</p>
<ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p>2.1 Gases. 2.1</p>
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	<p>Not applicable</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code 	<p>Not applicable. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p>

(Contd. on page 10)

Trade name: 824-400ML

(Contd. of page 9)

· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	

· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

· Poisons Act

· Regulated explosives precursors (Part 1)	None of the ingredients is listed.
· Regulated poisons (Part 2)	None of the ingredients is listed.
· Reportable explosives precursors (Part 3)	None of the ingredients is listed.
· Reportable poisons (Part 4)	None of the ingredients is listed.

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 11)

Safety data sheet

according to UK REACH

Trade name: 824-400ML

(Contd. of page 10)

<ul style="list-style-type: none"> · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
<ul style="list-style-type: none"> · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
<ul style="list-style-type: none"> · Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
<ul style="list-style-type: none"> · Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
<ul style="list-style-type: none"> · Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

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

SECTION 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**
 - H220 Extremely flammable gas.
 - H225 Highly flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.

<ul style="list-style-type: none"> · Classification according to Regulation (EC) No 1272/2008 	
Aerosols, Section 2.3.1	On basis of test data
Serious eye damage/irritation Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
- **Date of previous version:** 20.07.2024
- **Version number of previous version:** 4.01
- **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
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - 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
 - Flam. Gas 1A: Flammable gases – Category 1A
 - Aerosol 1: Aerosols – Category 1
 - : Aerosols – Category 3
 - Press. Gas (Comp.): Gases under pressure – Compressed gas

(Contd. on page 12)

Safety data sheet
according to UK REACH

Page 12/12

Printing date 10.09.2025

Version number 4.02 (replaces version 4.01)

Revision: 24.10.2024

Trade name: 824-400ML

(Contd. of page 11)

Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· * **Data compared to the previous version altered.**

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