

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: : MP014785

Other Means of Identification : 70/30 Isopropyl Alcohol for Electronics

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

#### Application of the substance / the mixture

Multipurpose cleaner for electronic

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Premier Farnell  
150 Armley Road  
Leeds LS12 2QQ  
Tel. : +44 (0) 8701 202530

#### Emergency telephone number

+44 1865 407333

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 : Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



GHS02 GHS07

Signal word : Danger

#### Hazard-determining components of labelling:

Propan-2-ol

#### 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, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P271	: Use only outdoors or in a well-ventilated area.
P280	: Wear protective gloves and 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 CO <sub>2</sub> , powder or water spray to extinguish.
P501	: Dispose of contents and container in accordance with local, regional, and national regulations.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### Determination of endocrine-disrupting properties



Endocrine Disruptor substance 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	Propan-2-ol	65–75%
EINECS: 200-661-7	 Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	
Index number: 603-117-00-0		
CAS: 7732-18-5	water, distilled, conductivity or of similar purity	25–35%
EINECS: 231-791-2		

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

## Section 4: First-Aid Measures

### 4.1 Description of first aid measures

<b>After inhalation</b>	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist consult doctor.
<b>After skin contact</b>	: Take off immediately all contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse.
<b>After eye contact</b>	: 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.
<b>After swallowing</b>	: 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:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

## 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.

**Hazardous combustion products:** Carbon Oxides (CO<sub>x</sub>)

## 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

Ensure adequate ventilation

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

### 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

### 6.3 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.

RECOMMENDATION: Use a grounded stainless steel or carbon steel container or a solvent resistant plastic 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.

### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### 7.2 Conditions for safe storage, including any incompatibilities 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.

## 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/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

**Additional information:** The lists valid during the making were used as basis.

### 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:**

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.



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

## Section 9: Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Form	: Low viscosity
Colour	: Colourless
Odour threshold	: Not determined.
Melting point/freezing point	: Undetermined.
Boiling point or initial boiling point and boiling range	: $\geq 80.6^{\circ}\text{C}$
Flammability	: Highly flammable.
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	: $18^{\circ}\text{C}$
Auto-ignition temperature	: $\geq 425^{\circ}\text{C}$ (67-63-0 Propan-2-ol)
Decomposition temperature	: Not determined.
pH	: Not applicable.
Viscosity:	
Kinematic viscosity	: Not determined.
Dynamic at $20^{\circ}\text{C}$	: 2.4 mPas
Solubility	
water	: Fully miscible.
Partition coefficient n-octanol/water (log value)	: Not determined.
Vapour pressure at $20^{\circ}\text{C}$	: 43 hPa (67-63-0 Propan-2-ol)
Vapour pressure	: 800 hPa
Density and/or relative density	
Density at $20^{\circ}\text{C}$	: $0.86\text{--}0.87\text{ g/cm}^3$
Relative density	: 0.86-0.87
Bulk density	: $691\text{--}1,043\text{ kg/m}^3$
Vapour density	: 2.1 (Air = 1)
Particle characteristics	: Not applicable.

## 9.2 Other information

### Important information on protection of health and environment, and on safety.

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	: 65–75%
Water	: 25–35%
VOC (EC)	: 65–75%
Solids content	: 0.0%
Evaporation rate	: 1.5 (ButAc=1)

### Information with regard to physical hazard classes

Flammable gases	: Highly flammable liquid and vapour.
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## 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.

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

**10.5 Incompatible materials:**

Strong oxidizing agents

Strong acids

Strong bases

Halogenated compounds

Aluminum at temperatures  $\geq 49^{\circ}\text{C}$

**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)

**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:**

irritation

redness

tearing of the eyes

pain

**Skin:**

dry skin

redness

**Inhalation:**

cough  
dizziness  
drowsiness  
headache  
weakness  
narcotic effects  
unconsciousness

**Swallowed:** see inhalation symptoms

**Additional toxicological information:****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.

No further relevant information available.

**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. Danger to drinking water if even extremely small quantities leak into the ground.

## 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**

# Safety Data Sheet

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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.

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.

## Section 14: Transport Information

### 14.1 UN number or ID number

ADR, IMDG, IATA : UN1219

### 14.2 UN proper shipping name

ADR IMDG : ISOPROPANOL (ISOPROPYL ALCOHOL)

IATA : Isopropanol (isopropyl alcohol)

### 14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class : 3 Flammable liquids.

Label : 3

### 14.4 Packing group

ADR, IMDG, IATA : II

14.5 Environmental hazards : Not applicable.

14.6 Special precautions for user : Not applicable.

Hazard identification number (Kemler code)

: 33

EMS Number : F-E,S-D

Stowage Category : B

14.7 Maritime transport in bulk according to IMO instruments

: Not applicable.

### Transport/Additional information:



Limited Quantity

8241-475ML, 8241-475MLCA, 8241-945ML, 8241-945MLCA, 8241-945MLX6, 8241-945MLCAX6



## ADR

Limited quantities (LQ) : 1L  
Excepted quantities (EQ) : Code: E2  
Maximum net quantity per inner packaging: 30ml  
Maximum net quantity per outer packaging: 500ml

Transport category : 2  
Tunnel restriction code : D/E

## IMDG

Limited quantities (LQ) : 1L  
Excepted quantities (EQ) : Code: E2  
Maximum net quantity per inner packaging: 30ml  
Maximum net quantity per outer packaging: 500ml

UN "Model Regulation" : UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

## Section 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Poisons Act

#### Regulated explosives precursors

None of the ingredients is listed.

#### Regulated poisons

None of the ingredients is listed.

#### Reportable explosives precursors

None of the ingredients is listed.

#### Regulated poisons

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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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.

### 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

H225 : Highly flammable liquid and vapour.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.

# Safety Data Sheet

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Classification according to Regulation (EC) No 1272/2008

Flammable liquids : On basis of test data

Serious eye damage/irritation : The classification of the mixture is generally based on the calculation method

Specific target organ toxicity (single exposure) using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:** Product safety department.

**Contact:** sds@mgchemicals.com

**Date of previous version:** 03.08.2024

**Version number of previous version:** 5

**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. 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.**

**Part Number**

MP014785

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