

# SAFETY DATA SHEET

## M-LINE GC-6 Isopropyl Alcohol

www.vpgsensors.com



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830  
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 11/04/2025  
Version: 4.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product name M-LINE GC-6 Isopropyl Alcohol  
CAS No. Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products  
Uses advised against None Known
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP UK LTD  
Stroudley Road  
Basingstoke  
Hampshire  
RG24 8FW  
United Kingdom  
Telephone +44 (0) 1256 462131  
Fax +44 (0) 1256 471441  
E-mail (competent person) mm.uk@vpgsensors.com
- 1.4 Emergency telephone number**  
National Poisons Information Service (United Kingdom) +44 (0) 3448 920111  
NHS 24 111  
Emergency Phone No. (00-1) 703-527-3887  
Languages spoken All official European languages.
- 24 hr. emergency phone number  
Healthcare Professionals ONLY  
Members of Public  
CHEMTREC (24 hours)

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain**  
Flam. Liq. 2; H225  
Eye Irrit. 2; H319  
STOT SE 3; H336
- 2.2 Label elements**  
According to the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain
- Product name M-LINE GC-6 Isopropyl Alcohol  
Contains: Propan-2-ol
- Hazard Pictogram(s)
- 
- Signal Word(s) DANGER
- Hazard Statement(s)  
H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

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Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P235: Keep cool.  
P370+P378: In case of fire: Use dry powder to extinguish.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P501: Dispose of contents in accordance with local, state or national legislation.

Supplemental information

None assigned

### 2.3 Other hazards

Not classified as PBT or vPvB. Does not cause endocrine disruption. Vapours can form explosive mixtures with air.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Propan-2-ol	67-63-0	200-661-7	Not yet assigned in the supply chain	≤100

For full text of H phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Avoid breathing mist/vapours/spray. Ensure adequate ventilation. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Avoid contact with skin. Contaminated clothing should be laundered before reuse. Do not use mouth-to-mouth resuscitation.

Inhalation

Eyewash facilities should be stationed close to workplace where possible.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms occur obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

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- |            |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b> | Flammable liquid and vapour. Vapours can form explosive mixtures with air. Containers may explode when involved in a fire. Keep container(s) exposed to fire cool, by spraying with water. Thermal decomposition will evolve toxic and corrosive vapours: Carbon dioxide, Carbon monoxide flammable liquid and vapour. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed containers may rupture explosively if hot. |
| <b>5.3</b> | <b>Advice for firefighters</b>                               | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.                                                                                                                                                                                                                                                  |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- |            |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. The vapour is heavier than air; beware of pits and confined spaces.                                                                                                                  |
| <b>6.2</b> | <b>Environmental precautions</b>                                           | Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Ensure suitable personal protection during removal of spillages. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste. Allow small spillages to evaporate provided there is adequate ventilation. |
|            | <b>Large spillages:</b>                                                    | Evacuate the area and keep personnel upwind. Notify police and fire brigade as soon as possible.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>6.4</b> | <b>Reference to other sections</b>                                         | See Section: 8, 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### SECTION 7: HANDLING AND STORAGE

- |            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | Ensure adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Do not use sparking tools. Do not spray on an open flame or other ignition source. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Ground/bond container and receiving equipment. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> | Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Do not reuse empty containers.                                                                                                                                                                                                                                                                                                |
|            | storage temperature                                                 | Store in a cool/low temperature. Keep at a temperature not exceeding (°C): 17.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | Storage life                                                        | Stable under normal conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            | Incompatible materials                                              | Keep away from: Strong oxidising agents, Strong acids and alkali., Iron, Aluminium, Air, Halogens, Peroxides.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>7.3</b> | <b>Specific end use(s)</b>                                          | See Section: 1.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |              |                                     |
|--------------|-------------------------------------|
| <b>8.1</b>   | <b>Control parameters</b>           |
| <b>8.1.1</b> | <b>Occupational exposure limits</b> |

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SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Propan-2-ol	67-63-0	400	999	500	1250	-

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not applicable
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash facilities should be stationed close to workplace where possible.
- 8.2.2 Individual protection measures, such as personal protective equipment** Use personal protective equipment as required. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe vapour. Wash hands before breaks and after work. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection



### Hand protection:

Wear impervious gloves (EN374). Nitrile rubber, Butyl rubber. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Nitrile rubber, Butyl rubber. Unsuitable gloves materials: Natural rubber / PVC.

### Body protection:

Wear dustproof working clothes. Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

Not applicable

- 8.2.3 Environmental exposure controls** Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Blue Liquid

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Odour	Alcohol-like.
Odour threshold	Not available
pH	Not established.
Melting point/freezing point	-88.5 °C
Initial boiling point and boiling range	82 °C
Flash point	11.7 °C
Evaporation rate	2.83 (BuAc = 1)
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Upper explosion limit: 12.0 Vol% Lower explosion limit: 2.0 Vol%
Vapour pressure	6.02 kPa @ 25 °C
Vapour density	2.1 (Air = 1)
Relative density	0.88 g/cm³
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	399 °C
Decomposition temperature	Not established.
Viscosity	2.1 mPa · s @ 25 °C Dynamic viscosity
Explosive properties	Not explosive. Vapours can form explosive mixtures with air.
Oxidising properties	Not oxidising.

**9.2 Other information** None Known

### SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions. Hazardous polymerisation will not occur.
<b>10.3 Possibility of hazardous reactions</b>	Highly flammable liquid and vapour. Vapour is explosive in air at temperatures higher than the flash point. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
<b>10.4 Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight. Do not spray on an open flame or other ignition source. Take precautionary measures against static discharge.
<b>10.5 Incompatible materials</b>	Flammable liquid, Oxidizing agents, Corrosive Substances, Alcohols, Strong Acids and Alkalis.
<b>10.6 Hazardous decomposition products</b>	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity - Ingestion</b>	Based upon the available data, the classification criteria are not met. LD50 (oral,rat) mg/kg: 58400 (OECD 401)
<b>Acute toxicity - Inhalation</b>	Based upon the available data, the classification criteria are not met. LC50 (inhalation,rat) mg/l/4h: 10000 (OECD 403)
<b>Acute toxicity - Skin contact</b>	Based upon the available data, the classification criteria are not met. LD50 (Dermal, (rabbit)) ml/kg bw 16.4 (OECD 402)
<b>Skin corrosion/irritation</b>	Based upon the available data, the classification criteria are not met. Not irritating to skin (rabbit) ECHA registration dossier
<b>Serious eye damage/irritation</b>	Eye Irrit. 2; Causes serious eye irritation. Irritating to eyes. (rabbit) (OECD 405) ECHA registration dossier
<b>Respiratory or skin sensitisation</b>	Based upon the available data, the classification criteria are not met. Skin sensitization: Sensitisation (guinea pig) - Negative (OECD 406) Respiratory sensitization: No data ECHA registration dossier
<b>Germ cell mutagenicity</b>	Based upon the available data, the classification criteria are not met. In vitro: Negative (Chinese Hamster ovary) (OECD 476) In vivo: Negative (mouse) (OECD 474) ECHA registration dossier
<b>Carcinogenicity</b>	Based upon the available data, the classification criteria are not met. NOEL 5000 ppm (OECD 451)
<b>Reproductive toxicity</b>	Based upon the available data, the classification criteria are not met.

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### STOT - single exposure

Reproductive toxicity: NOAEL: 1000 mg/kg bw/day (OECD 416)  
Developmental toxicity: NOAEL: 596 mg/kg bw/day (OECD 414)  
ECHA registration dossier  
STOT SE 3; May cause drowsiness or dizziness.  
Test Result: Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness. (OECD 403)  
ECHA registration dossier  
Based upon the available data, the classification criteria are not met.  
Based upon the available data, the classification criteria are not met.  
None Known

### STOT - repeated exposure

### Aspiration hazard

### 11.2 Other information

## SECTION 12: ECOLOGICAL INFORMATION

- |      |                                    |                                                                                                                    |
|------|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 12.1 | Toxicity                           | Based upon the available data, the classification criteria are not met.<br>Estimated Mixture LC50 >100 mg/l (Fish) |
| 12.2 | Persistence and degradability      | Readily biodegradable (according to OECD criteria).                                                                |
| 12.3 | Bioaccumulative potential          | The substance has low potential for bioaccumulation. Log Pow < 3.                                                  |
| 12.4 | Mobility in soil                   | The substance is predicted to have high mobility in soil. Water Soluble.<br>Log Pow: < 3. Readily biodegradable.   |
| 12.5 | Results of PBT and vPvB assessment | Not classified as PBT or vPvB.                                                                                     |
| 12.6 | Other adverse effects              | None Known                                                                                                         |

## SECTION 13: DISPOSAL CONSIDERATIONS

- |      |                         |                                                                                                                                                                                                     |
|------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1 | Waste treatment methods | This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility.<br>Directive 2008/98/EC (Waste Framework Directive) HP3, HP4, HP5 |
| 13.2 | Additional information  | Dispose of contents in accordance with local, state or national legislation.                                                                                                                        |

## SECTION 14: TRANSPORT INFORMATION

- |      | ADR/RID                                                            | IMDG                                       | IATA/ICAO                                |
|------|--------------------------------------------------------------------|--------------------------------------------|------------------------------------------|
| 14.1 | UN number                                                          | UN 1219                                    | UN 1219                                  |
| 14.2 | UN proper shipping name                                            | ISOPROPANOL<br>(ISOPROPYL<br>ALCOHOL)      | ISOPROPANOL<br>(ISOPROPYL<br>ALCOHOL)    |
| 14.3 | Transport hazard class(es)                                         | 3                                          | 3                                        |
| 14.4 | Packing group                                                      | II                                         | II                                       |
| 14.5 | Environmental hazards                                              | Not applicable                             | Not classified as a<br>Marine Pollutant. |
| 14.6 | Special precautions for user                                       | See Section: 2                             |                                          |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code | Pollution category: Z                      |                                          |
| 14.8 | Additional information                                             | Recommended: Road/Rail/Sea transport only. |                                          |

## SECTION 15: REGULATORY INFORMATION

- |        |                                                                                                                                                                                                           |                                                                                                                                                |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.1   | Safety, health and environmental regulations/legislation specific for the substance or mixture                                                                                                            |                                                                                                                                                |
| 15.1.1 | EU regulations                                                                                                                                                                                            |                                                                                                                                                |
|        | Use restriction according to REACH annex XVII, no.:<br>Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]<br>Restrictions of occupation: | Not restricted<br>P5c<br><br>Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). |

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To follow:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

### GB regulations

GB Mandatory classification and labelling list

Propan-2-ol: Listed

### 15.1.2 National regulations

#### Germany

Water hazard class (WGK)

Water hazard class: 1 (Self classification)

### 15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

### References:

Existing Safety Data Sheet (SDS), GB Mandatory classification and labelling list and Existing ECHA registration(s) for Propan-2-ol (CAS No. 1330-20-7).

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture. The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification procedure
Flam. Liq. 2; H225	Physical and chemical properties / Harmonised Classification
Eye Irrit. 2; H319	Harmonised Classification
STOT SE 3; H336	Harmonised Classification

### Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NOAEC	No observed adverse effect concentration
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time Weighted Average
STEL	Short term exposure limit
vPvB	very Persistent and very Bioaccumulative
UK	United Kingdom



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UN United Nations

### Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid Category 2

Eye Irrit. 2; Eye Irritation Category 2

STOT SE 3; Specific target organ toxicity — single exposure Category 3

### Hazard Statement(s)

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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**Annex to the extended Safety Data Sheet (eSDS) - Not applicable**



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