Revision: 1.1 Date: 09.05.2016

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010



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M-Line GC-6

1.	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifier Product Name Chemical Name CAS No. EINECS No.	M-Line GC-6 – Isopropyl Alcohol Mixture Mixture Mixture		
1.2	REACH Registration No. Recommended use of the chemical and restrictions on use Identified Use(s)	None assigned.		
	Uses Advised Against	PC14 Metal surface treatment products, including galvanic and electroplating products None known.		
1.3	Supplier's details Company Identification	Vishay Measurements Group, Inc. Post Office Box 27777 Raleigh, NC 27611 USA		
	Telephone	919-365-3800		
	Fax	919-365-3945		
	E-Mail (competent person)	mm.us@vishaypg.com		
1.4	Emergency Phone No.	1-800-424-9300 (U.S.) 703-527-3887 (Outside U.S.) CHEMTREC		
2.	SECTION 2: HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
2.1.1	GHS Classification	Flam. Liq. 2; Highly flammable liquid and vapour. Eye Irrit. 2; Causes serious eye irritation. STOT SE 3; Specific target organ toxicity — single exposure 3 (Inhalation and Oral)		
2.2	Label elements	According to GHS Classification		
	Product Name	M-Line GC-6		
	Hazard Pictogram(s)			
	Signal Word(s)	Danger		
	Hazard Statement(s)	H225: Flammable liquid and vapour. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.		
	Precautionary Statement(s)	 P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P261: Avoid breathing vapours. P280: Wear protective gloves/protective clothing/eye protection/face 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. 		

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P337+P313: If eye irritation persists: Get medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

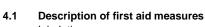
3.1 Substances

GHS Classification
Chemical identity of the

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard Statement(s)
propan-2-ol	100	67-63-0	200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

3.2 Mixtures Not applicable.

4. SECTION 4: FIRST AID MEASURES



	Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you
	Skin Contact	feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical
	Eye Contact	advice/attention. 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 with water (only if the person is conscious). Do not induce vomiting. Obtain medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
4.2	Most important symptoms and effects, both acute and delayed	May cause drowsiness or dizziness. May produce an allergic reaction in persons already sensitised. Causes irritation to eyes and skin.
4.3	Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically.
5.	SECTION 5: FIRE-FIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
5.2	Unsuitable extinguishing Media Special hazards arising from the substance or mixture	Do not use water jet. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon
J.Z	opecial nazaras ansing nom the substance of mixture	way decompose in a me giving on toxic runes. Carbon monoxide, Carbon

dioxide. Prevent liquid entering sewers, basements and workpits; vapour may create explosive atmosphere. Vapours are heavier than air and may travel

considerable distances to a source of ignition and flashback.



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emergency procedures

Environmental precautions

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Personal precautions, protective equipment and

Methods and material for containment and cleaning

SECTION 6: ACCIDENTAL RELEASE MEASURES

See Section:1.2 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

8.1.1 **Occupational Exposure Limits**

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	980	500	1225	NIOSH.1
		400	980			OSHA

Note: NIOSH: National Institute for Occupational Safety and Health. OSHA: Ocupational Safety and Health Standards. 1: 15 minutes average value

Not established.

Biological limit value 8.1.2

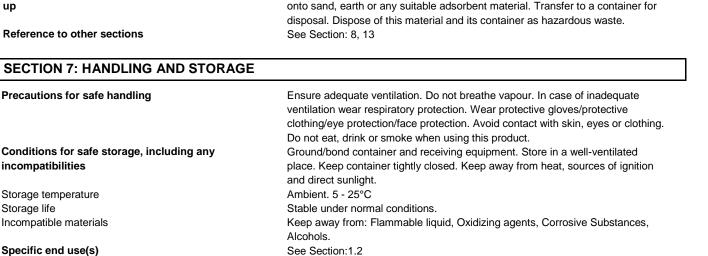
PNECs and DNELs

DNEL (Propan-2-ol) Oral Inhalation Dermal Industry - Long Term - Systemic effects 500 mg/m³ 888 mg/kg bw/day Consumer - Long Term - Systemic effects 26 mg/kg bw/day 89 mg/m³ 319 mg/kg bw/day

PNEC	Propan-2-ol
Aquatic Compartment	PNEC aqua (freshwater / marine water / intermittent releases)
	140.9 mg/L
	PNEC STP 2251 mg/L
	PNEC sediment (freshwater/marine water) 552 mg/kg sediment dw
	PNEC oral 160 mg/kg food
Terrestrial Compartment	PNEC soil 28 mg/kg soil dw

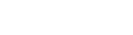
8.2 **Exposure controls**





protection/face protection.

Do not allow to enter drains, sewers or watercourses.



Ensure adequate ventilation. Shut off leaks if without risk. Eliminate sources of

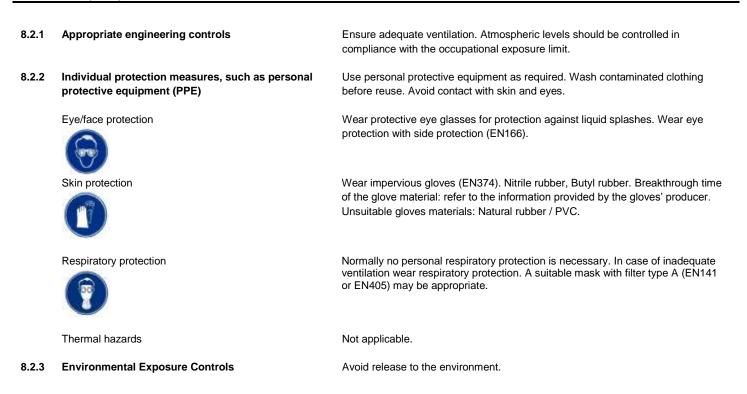
ignition. Avoid breathing vapours. Wear protective gloves/protective clothing/eye

Use non-sparking equipment when picking up flammable spill. Adsorb spillages

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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties Appearance Odour Odour Threshold pH Melting Point/Freezing Point Initial boiling point and boiling range Flash point Evaporation Rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition Temperature	Physico-chemical properties of substance Propan-2-ol. Blue Coloured liquid. Alcohol-like Odour Not available. Not established. -88.5°C 82.3°C (Mixture) 11.7 °C °C 2.83 (BuAc = 1) Flam. Liq. 2; Flammable liquid and vapour. Not available. $6.02 \text{ kPa at } 25^{\circ}\text{C}$ 2.1 (Air = 1) 0.78 (H2O = 1) 98% (Water) 0.05 log Pow (25 °C) 399 °C Not available.
	Auto-ignition temperature	399 °C
	Viscosity	Not available. 2.038 mPa s (dynamic) 25 °C
	Explosive properties	Not available.
	Oxidising properties	Not oxidising.
9.2	Other information	None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Stable under normal conditions. Stable under normal conditions.

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10.3	Possibility of hazardous reactions	Highly flammable liquid and vapour. The vapour may be invisible, heavier than air and spread along ground.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5	Incompatible materials	Flammable liquid, Oxidizing agents, Corrosive Substances, Alcohols, Strong Acids and Alkalis.
10.6	Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects Acute toxicity			
	Ingestion	May cause drowsiness and dizziness.		
	Inhalation	May cause drowsiness and dizziness.		
	Skin Contact	Not classified.		
	Eye Contact	Eye Irrit. 2		
	skin corrosion/irritation	Eye Irrit. 2; Moderate irritant to rabbit eyes.		
	Serious eye damage/irritation	Not classified.		
	Respiratory or skin sensitization	Not classified.		
	Germ cell mutagenicity	There is no evidence of mutagenic potential.		
	Carcinogenicity	No evidence of carcinogenicity.		
	Reproductive toxicity	Not classified.		
	STOT - single exposure	Not classified.		
	STOT - repeated exposure	Not classified.		
	Aspiration hazard	Not classified.		
11.2	Other information	None.		

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity
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- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and VPVB assessment
- 12.6 Other adverse effects

Not classified as a Marine Pollutant. Readily biodegradable. The product has low potential for bioaccumulation. The product is predicted to have high mobility in soil. Water Soluble. Not classified as PBT or vPvB. None known.

13.	SECTION 13: DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods	This material and its container must be disposed of as hazardous waste.	
		(2001/118EC). Send after pre-treatment to a appropriate hazardous waste	
		incinerator facility according to legislation.	
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.	

14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID / IMDG / IATA
14.1	UN number	UN 1219
14.2	Proper Shipping Name	ISOPROPANOL (ISOPRPYL ALCOHOL)
14.3	Transport hazard class(es)	3
14.4	Packing group	II
14.5	Environmental hazards	Not classified as a Marine Pollutant.
14.6	Special precautions for user	Causes serious eye irritation.
14.7	Transport in bulk according to Annex II of	Not applicable.
	MARPOL73/78 and the IBC Code	
14.8	Additional Information	None.

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15. SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2 Chemical Safety Assessment

Not available.

Propan-2-ol - Seveso Substances Category 7b

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS) and Existing ECHA registration(s) for Propan-2-ol (CAS# 1330-20-7).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Liq. 2; H226	Harmonised Classification
Eye Irrit. 2; H319	Harmonised Classification
STOT SE 3; H336	Harmonised Classification

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
OSHA	Ocupational Safety and Health Standards

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Annex to the extended Safety Data Sheet (eSDS)

No information available.



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