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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),

1272/2008 (CLP) & 453/2010

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M-Bond 200 Catalyst C

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

1.1 Product identifier

Product Name M-Bond 200 Catalyst C

Chemical Name Mixture
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.

1.2 Recommended use of the chemical and restrictions

on use

Identified Use(s)Adhesives.Uses Advised AgainstNone known.

1.3 Supplier's details

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@vishaypg.com

1.4 Emergency Phone No. (00-1) 703-527-3887

CHEMTREC

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) 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

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC F; R11: Highly flammable.

Xi; R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product Name M-Bond 200 Catalyst C

Hazard Pictogram(s)





Signal Word(s) Danger

Hazard Statement(s)

H226: 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.

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

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the	%W/W	CAS No.	EC No.	Hazard Statement(s)	
substance					
propan-2-ol	>97.5	67-63-0	200-661-7	Flam. Liq. 2; H225	
				Eye Irrit. 2; H319	
				STOT SE 3; H336	

Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	EC Classification and Risk Phrases
propan-2-ol	>97.5	67-63-0	200-661-7	F; R11: Highly flammable. Xi; R36: Irritating to eyes. R67: Vapours may cause drowsiness and dizziness.

3.2 Mixtures Not applicable.

4. SECTION 4: FIRST AID MEASURES



4.3

4.1 Description of 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

feel unwel

Skin Contact IF ON SKIN: Wash with plenty of soap and water. Take off contaminated

clothing and wash before reuse. If skin irritation occurs, get medical

advice/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 with water (only if the person is conscious). Do not

induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and May cause drowsiness or dizziness. May produce an allergic reaction in persons

delayed already sensitised. Causes irritation to eyes and skin.

Indication of any immediate medical attention and Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Unsuitable extinguishing Media

special treatment needed

Extinguish with carbon dioxide, dry chemical, foam or waterspray. Do not use water jet.

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5.2 Special hazards arising from the substance or mixture May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon

dioxide. Prevent liquid entering sewers, basements and workpits; vapour may

create explosive atmosphere.

5.3 Advice for fire-fighters 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.

6. **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and

emergency procedures

6.2 **Environmental precautions**

6.3

Methods and material for containment and cleaning

6.4 Reference to other sections Ensure adequate ventilation. Shut off leaks if without risk. Eliminate sources of ignition. Avoid breathing vapours. Wear protective gloves/protective clothing/eye

protection/face protection.

Do not allow to enter drains, sewers or watercourses.

Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for

disposal. Dispose of this material and its container as hazardous waste.

See Section: 8, 13

7. **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling Ensure adequate ventilation. Do not breathe vapour. In case of inadequate

ventilation wear respiratory protection. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Ground/bond container and receiving equipment. Store in a well-ventilated

place. Keep container tightly closed. Keep away from heat, sources of ignition

Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any

incompatibilities

and direct sunlight. Ambient. 5 - 25°C

Storage temperature Storage life

Stable under normal conditions.

Incompatible materials

Keep away from: Flammable liquid, Oxidizing agents, Corrosive Substances,

Alcohols. Adhesives.

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

8.1 **Control parameters**

8.1.1 **Occupational Exposure Limits**

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

Note WEL: Workplace Exposure Limit (UK HSE EH40).

OELs / WELs required for UK, USA, Germany, France, Sweden, Czech Rep, The Netherlands, Italy, Poland, Israel, Russia, China, Japan & Spain.

8.1.2 Biological limit value Not established.

8.1.3 PNECs and DNELs

DNEL (Propan-2-ol)	Oral	Inhalation	Dermal
Industry - Long Term - Systemic effects	-	500 mg/m ³	888 mg/kg bw/day
Consumer - Long Term - Systemic effects	26 mg/kg bw/day	89 mg/m ³	319 mg/kg bw/day

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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**

Appropriate engineering controls 8.2.1

Ensure adequate ventilation. Atmospheric levels should be controlled in

compliance with the occupational exposure limit.

8.2.2 Individual protection measures, such as personal

protective equipment (PPE)

Use personal protective equipment as required. Wash contaminated clothing

before reuse. Avoid contact with skin and eyes.

Eye/face protection Wear protective eye glasses for protection against liquid splashes. Wear eye

protection with side protection (EN166).

Skin protection

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

Unsuitable gloves materials: Natural rubber / PVC.

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.

9. **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties Physico-chemical properties of substance Propan-2-ol.

Appearance Blue Coloured liquid. Odour Alcohol-like Odour Odour Threshold Not available. Not established. Melting Point/Freezing Point -88.5°C

Initial boiling point and boiling range 82.3°C (Mixture) 11.7 °C °C Flash point **Evaporation Rate** 2.83 (BuAc = 1)

Flammability (solid, gas) Flam. Liq. 2; Flammable liquid and vapour.

Upper/lower flammability or explosive limits Not available. Vapour pressure 6.02 kPa at 25°C Vapour density 2.1 (Air = 1)Relative density 0.78 (H2O = 1)Solubility(ies) 98% (Water)

Partition coefficient: n-octanol/water 0.05 log Pow (25 °C)

399 °C Auto-ignition temperature **Decomposition Temperature** Not available.

Viscosity 2.038 mPa s (dynamic) 25 °C

Explosive properties Not available. Oxidising properties Not oxidising.

9.2 Other information None.

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10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.
 10.2 Chemical stability Stable under normal conditions.

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 (Substances in preparations / mixtures)

Acute toxicity

11.2

Ingestion Not classified.

Inhalation May cause drowsiness and dizziness.

Skin Contact Not classified.
Eye Contact Eye Irrit. 2

Irritation Eye Irrit. 2; Moderate irritant to rabbit eyes.

 Corrosivity
 Not classified.

 Sensitisation
 Not classified.

 Repeated dose toxicity
 Not classified.

Carcinogenicity No evidence of carcinogenicity.

Mutagenicity There is no evidence of mutagenic potential.

Toxicity for reproductionNo data.Other informationNone.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Not classified as a Marine Pollutant.

12.2 Persistence and degradability Readily biodegradable.

12.3 Bioaccumulative potential The product has low potential for bioaccumulation.

12.4 Mobility in soil The product is predicted to have high mobility in soil. Water Soluble.

12.5 Results of PBT and VPVB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects 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

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

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14.8 Additional Information

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

Propan-2-ol - Seveso Substances Category 7b

regulations/legislation specific for the substance or

mixture

15.1.1 EU regulations

Authorisations and/or Restrictions On Use None.

15.1.2National regulationsNone known.15.2Chemical Safety AssessmentNot available.

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

None.

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 PPVB PPT: very Persistent and very Toxic

OECD Organisation for Economic Cooperation and Development

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)

No information available.