

SAFETY DATA SHEET

M-Bond 300 Resin

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2020/878

www.vpgsensors.com
Date of issue: 10/01/2023
Date of First Issue: 20/03/2012
Version 2.0

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

- 1.1 Product identifier**
Product Name M-Bond 300 Resin
Product Code Not applicable
Unique Formula Identifier (UFI) Not applicable
Nanoform The product does not contain nanoparticles.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) Adhesive/Sealants
Uses Advised Against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**
Company Identification VISHAY MEASUREMENTS GROUP GMBH
Tatschenweg 1
74078 Heilbronn
Deutschland
Telephone +49 (0) 7131 39099-0
Fax +49 (0) 7131 39099-229
E-Mail (competent person) mm.de@vpgsensors
- 1.4 Emergency telephone number**
National Poisons Information Service (United Kingdom) +44 (0) 3448 920111 24 hr. emergency phone number
NHS 24 111 Healthcare Professionals ONLY
Emergency Phone No. (00-1) 703-527-3887 Members of Public
Languages spoken All official European languages. CHEMTREC (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
2.1.1 Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3; H226
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
Repr. 1B; H360
STOT RE 1; H372
Aquatic Chronic 3; H412
- 2.2 Label elements** According to Regulation (EC) No. 1272/2008 (CLP)
- Product Name M-Bond 300 Resin
- Hazard Pictogram(s)
-   
- Signal Word(s) DANGER
- Contains: Styrene; Silica, Amorphous, Fumed, Cryst.-Free; Cobalt bis(2-ethylhexanoate)

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Hazard Statement(s)	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H360: May damage fertility or the unborn child. H372: Causes damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P201: Obtain special instructions before use. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260: Do not breathe mist/vapours/spray. P280: Wear protective gloves/protective clothing and eye/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331: Do NOT induce vomiting.
Supplemental information	EUH208: Contains: Cobalt bis(2-ethylhexanoate) May produce an allergic reaction.
2.3 Other hazards	None Known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Styrene	30 - < 50	100-42-5	202-851-5	None assigned	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Repr. 2; H361d STOT RE 1; H372 (hearing organs) Aquatic Chronic 3; H412
Silica, Amorphous, Fumed, Cryst.-Free	1 - < 5	112945-52-5	601-216-3	None assigned	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335
Cobalt bis(2-ethylhexanoate)	0.5 - < 1	136-52-7	205-250-6	None assigned	Skin Sens. 1A; H317 Eye Irrit. 2; H319 Repr. 1B; H360 Aquatic Acute 1; H400 Aquatic Chronic 3; H412

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



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4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid exposure during pregnancy. Do not breathe vapour. Do not use mouth-to-mouth resuscitation.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing or under medical supervision. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash 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. Get medical attention if eye irritation develops or persists.

Ingestion

IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May produce an allergic reaction.

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.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed containers may rupture explosively if hot.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe vapour. 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.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Ensure suitable personal protection (including respiratory protection) during removal of spillages. Contain spillages. Use non-sparking equipment when picking up flammable spill. Use waterspray to 'knock down' vapour. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. Transfer to a container for disposal.

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6.4 Reference to other sections

Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste.

See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take precautionary measures against static discharge. Use only non-sparking tools. Do not use compressed air for filling, discharging or handling.

7.2 Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight.

Storage temperature

Ambient. Keep at a temperature not exceeding (°C): 25.

Storage life

Stable under normal conditions

Incompatible materials

Keep away from: Copper, copper alloy, Brass and Polymerisation catalysts such as peroxy or azo compounds, strong acids, alkalis, oxidising agents and metal salts.

7.3 Specific end use(s)

See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Styrene	100-42-5	100	430	250	1080	-

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

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m ³	ppm	mg/m ³	
Styrene	100-42-5	20	85	40	170	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

8.1.2 Biological limit value

Not established

8.1.3 PNECs and DNELs

Not established.

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. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing vapours. Wash hands before breaks and after work.

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Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. 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). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: PVC / Nitrile rubber.

Respiratory protection



Body protection:

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

Respiratory protection is not necessary if room is well ventilated. Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. Where an air-purifying respirator is suitable, use EN141 or EN143. Recommended: Filter type A (EN141) and Filter type P2 (EN143). Have available emergency self-contained breathing apparatus or full-face airline respirator when using this chemical.

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

Physical state	Liquid
Colour	Opaque amber
Odour	Pungent
Melting point and freezing point	-30°C (Styrene)
Boiling point or initial boiling point and boiling range	146°C (Styrene)
Flammability	No data available
Lower and upper explosion limit or lower and upper flammability limit	Flammable Limits (Upper) (%v/v): 6.1 (Styrene) Flammable Limits (Lower) (%v/v): 1.1 (Styrene)
Flash point	32°C [Closed cup]
Auto-ignition temperature	490°C (Styrene)
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water.
Partition coefficient: n-octanol/water (log value)	not applicable
Vapour pressure	6.7 hPa (Styrene)
Density and/or relative density	1.08 +/- 0.04 @ 25°C (Water = 1)
Relative vapour density	3.6 (Air = 1) (Styrene)
Particle characteristics	not applicable

9.2 Other information

Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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Odour threshold	0.2 ppm (Styrene)
Evaporation rate	0.49 (Styrene) (BuAc = 1)
Viscosity	450 - 600 cps @ 25°C (Brookfield Test Result)

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. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Monitor stored material for loss of inhibitors. The following may occur: Hazardous Polymerization. Susceptible to violent exothermic polymerisation, initiated by heating or the presence of catalysts. Pressure buildup can be rapid.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Keep at a temperature not exceeding (°C): 65 (Hazardous Polymerization).
10.5 Incompatible materials	Keep away from: Copper, copper alloy, Brass and Polymerisation catalysts such as peroxy or azo compounds, strong acids, alkalis, oxidising agents and metal salts.
10.6 Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Oxides of carbon and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity	
Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg bw/day.
Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20 mg/l. (Vapour)
Skin Contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg bw/day.
Skin corrosion/irritation	Mixture: Skin Irrit. 2: H315: Causes skin irritation.
Styrene	Skin Irrit. 2; H315: Causes skin irritation. EU Harmonised Classification EU ECHA Registration Endpoint summary
Silica, Amorphous, Fumed, Cryst.-Free	Skin Irrit. 2; H315: Causes skin irritation. EU classification and labelling inventory >1300 Notifiers
Serious eye damage/irritation	Mixture: Eye Irrit. 2: Causes serious eye irritation.
Styrene	Eye Irrit. 2; H319: Causes serious eye irritation. EU Harmonised Classification Test Result: Irritating to eyes. ECHA Registration Endpoint summary
Silica, Amorphous, Fumed, Cryst.-Free	Eye Irrit. 2; H319: Causes serious eye irritation. EU classification and labelling inventory >1300 Notifiers
Cobalt bis(2-ethylhexanoate)	Eye Irrit. 2; H319: Causes serious eye irritation. Test Result: Irritating to eyes. (OECD 405) ECHA Registration Endpoint summary
Respiratory or skin sensitization	Mixture: Based upon the available data, the classification criteria are not met. EUH208: Contains: Cobalt bis(2-ethylhexanoate) May produce an allergic reaction.
Cobalt bis(2-ethylhexanoate)	Skin Sens. 1: H317: May cause an allergic skin reaction. Result: Positive - Sensitising (OECD 429) EU ECHA Registration Endpoint summary
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Mixture: Repr. 1B; H360: May damage fertility or the unborn child.

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	Cobalt bis(2-ethylhexanoate)	Repr. 1B; H360: May damage fertility or the unborn child. NOAEL: 30mg/kg/day, EU ECHA registration dossier
STOT - single exposure	Styrene	Mixture: STOT SE 3; H335: May cause respiratory irritation. STOT SE 3; H335: May cause respiratory irritation. EU ECHA Registration Endpoint summary: Irritating to eyes, respiratory system and skin. EU Harmonised Classification
	Silica, Amorphous, Fumed, Cryst.-Free	STOT SE 3; H335: May cause respiratory irritation. EU classification and labelling inventory >1300 Notifiers
STOT - repeated exposure	Styrene	Mixture: Based upon the available data, the classification criteria are not met. STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure: (Hearing Organs) EU Harmonised Classification
Aspiration hazard	Styrene	Mixture: Based upon the available data, the classification criteria are not met. Asp. Tox. 1; H304: May be fatal if swallowed and enters airways. Kinematic viscosity 0.77 mm ² /s @ 25 °C EU ECHA registration dossier
11.2 Information on other hazards		
11.2.1	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2	Other information	None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity		Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
	Styrene	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Chronic Toxicity: NOEC (21d) (Daphnia magna) mg/l 1.01 Chronic Toxicity: NOEC (21d) (Algae) mg/l 0.28 EU Harmonised Classification; EU ECHA registration dossier
	Cobalt bis(2-ethylhexanoate)	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. Chronic Toxicity: NOEC (28d) (Daphnia magna) 350mg Co/L Chronic Toxicity: NOEC (28d) Oncorhynchus mykiss (Rainbow trout) 2100mg Co/L
12.2 Persistence and degradability		Aquatic Acute 1; H400: Very toxic to aquatic life. Acute toxicity: LC50: 0.8 (Oncorhynchus mykiss (Rainbow trout)) – 85 (Danio rerio (zebrafish)) EU ECHA registration dossier
	Styrene	No data for the mixture as a whole. Readily biodegradable.
	Silica, Amorphous, Fumed, Cryst.-Free	No data available
	Cobalt bis(2-ethylhexanoate)	Biodegradation is not relevant for metals and inorganic substances.
12.3 Bioaccumulative potential		No data for the mixture as a whole.
	Styrene	Bioconcentration factor (BCF): 74 The substance has low potential for bioaccumulation.
	Silica, Amorphous, Fumed, Cryst.-Free	No data available
	Cobalt bis(2-ethylhexanoate)	The substance has low potential for bioaccumulation.
12.4 Mobility in soil		No data for the mixture as a whole.
	Styrene	Adsorption to solids will be limited.
	Silica, Amorphous, Fumed, Cryst.-Free	No data available
	Cobalt bis(2-ethylhexanoate)	The substance is predicted to have low mobility in soil.
12.5 Results of PBT and vPvB assessment		Not classified as PBT or vPvB.
12.6 Endocrine disrupting properties		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7 Other adverse effects		None known

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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.
- 13.2 **Additional Information** Directive 2008/98/EC (Waste Framework Directive) HP3, HP4, HP5, HP10, HP14
Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA/ICAO
14.1 UN number or ID number	UN 1133	UN 1133	UN 1133	UN 1133
14.2 UN proper shipping name	ADHESIVES Containing flammable liquid	ADHESIVES Containing flammable liquid	ADHESIVES Containing flammable liquid	ADHESIVES Containing flammable liquid
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Not applicable	Not applicable	Not classified as a Marine Pollutant.	Not applicable
14.6 Special precautions for user	See Section: 2			
14.7 Maritime transport in bulk according to IMO instruments	No information available.			
14.8 Additional Information	No information available.			

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.:
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

Not restricted
P5c

VOC-value:

VOC-value %WW	Temperature	Method
3 - 5	20 °C	calculated

Restrictions of occupation:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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

To follow:

15.1.2 **National regulations
Germany**

Water hazard class (WGK)

Water hazard class: 2 (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: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

EU classification and labelling inventory for Silica, Amorphous, Fumed, Cryst.-Free (CAS No. 112945-52-5),
Harmonised Classification(s) for Styrene (CAS No. 100-42-5).

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ECHA registration dossier for Cobalt bis(2-ethylhexanoate) (CAS No. 136-52-7), Styrene (CAS No. 100-42-5).
Existing Safety Data Sheet (SDS)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Liq. 3; H226	Flash Point [Open cup] Test Result/ Boiling Point (°C)
Asp. Tox. 1; H304	Threshold Calculation, Estimated Viscosity
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE 3; H335	Threshold Calculation
Repr. 1B; H360	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation
EUH208: Contains: Cobalt bis(2-ethylhexanoate) May produce an allergic reaction.	

LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	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
EC50	Effect concentration; 50 %
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
UN	United Nations
VOC	Volatile organic compounds

Hazard classification / Classification code:

Flam. Liq. 3; Flammable liquid, Category 3
Asp. Tox. 1; Aspiration Toxicity, Category 1
Acute Tox. 4; Acute toxicity, Category 4
Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin sensitisation, category 1
Eye Irrit. 2; Serious eye damage/irritation, Category 2
STOT SE 3; Specific target organ toxicity — single exposure, Category 3
Repr. 1B; Reproductive toxicity, Category 1B

Hazard Statement(s)

H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H360: May damage fertility or the unborn child.

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STOT RE 1; Specific target organ toxicity — repeated exposure,
Category 1
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category
1
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic ,
Category 3

H372: Causes damage to organs through prolonged or repeated
exposure.

H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

EUH208: Contains: Cobalt bis(2-ethylhexanoate) May produce an
allergic reaction.

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.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Vishay Precision Group gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Vishay Precision Group accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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