SAFETY DATA SHEET

Plastic-Bond Hardener



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name	: Plastic-Bond Hardener
UFI	: 3N40-H01F-Y00J-JKK3
Product code	: 151220-B
Color	: White.

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

Identified uses

Hardener for resins. Adhesives

1.3 Details of the supplier of the safety data sheet

CIMCO-Werkzeuge GmbH & Co. KG Hohenhagener Str. 1-5 D-42855 Remscheid Tel. +49 (0) 2191 3718-01 Fax +49 (0) 2191 3718-86 info@cimco.de · www.cimco.de

e-mail address of person : info@cimco.de responsible for this SDS

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.



SECTION 2: Hazards identification

Hazard statements	:	H225 - Highly flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	 P280 - Wear protective gloves. 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. P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.
Response	:	 P391 - Collect spillage. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of waste according to applicable legislation.
Hazardous ingredients	:	methyl methacrylate cobalt bis(2-ethylhexanoate)
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥50 - ≤75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
oxydipropyl dibenzoate	REACH #: 01-2119529241-49 EC: 248-258-5 CAS: 27138-31-4	≤10	Aquatic Chronic 3, H412	-	[1]
3,5-diethyl-1,2-dihydro-	REACH #:	≤2.1	Acute Tox. 4, H302	ATE [Oral] = 1620	[1]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Plastic-Bond Hardener

1-phenyl-2-propylpyridine	01-2120769712-47		Skin Irrit. 2, H315	mg/kg	
	EC: 252-091-3 CAS: 34562-31-7		Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	
ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m- tolyl)propionate]	EC: 253-039-2 CAS: 36443-68-2	≤0.38	Aquatic Chronic 1, H410	M [Chronic] = 10	[1]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤0.1	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
(2-methoxymethylethoxy) propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.1	Not classified.	-	[2]
aniline	EC: 200-539-3 CAS: 62-53-3 Index: 612-008-00-7	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400	ATE [Oral] = 250 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm STOT RE 1, H372: $C \ge 1\%$ STOT RE 2, H373: $0.2\% \le C < 1\%$ M [Acute] = 10	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

SECTION 4: First aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Date of issue/Date of revision

SECTION 5: Firefighting measures

_	-
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials for containment and cleaning up	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteriaCategoryNotification and MAPP
thresholdSafety report thresholdP5c
E25000 tonne
200 tonne50000 tonne
5000 tonne

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
methyl methacrylate	TRGS 900 OEL (Germany, 7/2021).TWA: 210 mg/m³ 8 hours.PEAK: 420 mg/m³ 15 minutes.TWA: 50 ppm 8 hours.PEAK: 100 ppm 15 minutes.DFG MAC-values list (Germany, 10/2021). Skin sensitizer.TWA: 50 ppm 8 hours.PEAK: 100 ppm, 4 times per shift, 15 minutes.TWA: 210 mg/m³ 8 hours.TWA: 210 mg/m³ 8 hours.
cobalt bis(2-ethylhexanoate) Date of issue/Date of revision : 5/16/2023	PEAK: 420 mg/m³, 4 times per shift, 15 minutes. TRGS 910 (Germany, 7/2021). [] Date of previous issue : 10/26/2022 Version : 1.03 6/20

SECTION 8: Exposure contro	Is/personal protection
	PEAK: 40 μg/m³, 0 times per shift, 15 minutes. Form: alveolar fraction TWA-TC: 5 μg/m³ 8 hours. Form: alveolar fraction TWA-AC: 0.5 μg/m³ 8 hours. Form: alveolar fraction
1-methoxy-2-propanol	 TRGS 900 OEL (Germany, 7/2021). TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 200 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³, 4 times per shift, 15 minutes.
(2-methoxymethylethoxy)propanol	 TRGS 900 OEL (Germany, 7/2021). [] TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). [Dipropylene glycol monomethyl ether] TWA: 50 ppm 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 8 hours.
aniline	 TRGS 900 OEL (Germany, 7/2021). Absorbed through skin. Skin sensitizer. TWA: 7.7 mg/m³ 8 hours. PEAK: 15.4 mg/m³ 15 minutes. TWA: 2 ppm 8 hours. PEAK: 4 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). Absorbed through skin. Skin sensitizer. TWA: 2 ppm 8 hours. PEAK: 4 ppm, 4 times per shift, 15 minutes. TWA: 7.7 mg/m³ 8 hours. PEAK: 4 ppm, 4 times per shift, 15 minutes. TWA: 7.7 mg/m³ 8 hours. PEAK: 15.4 mg/m³, 4 times per shift, 15 minutes.
procedures European assessm values ar atmosph of exposi (Workplat for the m	ce should be made to monitoring standards, such as the following: In Standard EN 689 (Workplace atmospheres - Guidance for the Itent of exposure by inhalation to chemical agents for comparison with limit Ind measurement strategy) European Standard EN 14042 (Workplace eres - Guide for the application and use of procedures for the assessment ure to chemical and biological agents) European Standard EN 482 ace atmospheres - General requirements for the performance of procedures neasurement of chemical agents) Reference to national guidance onts for methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
methyl methacrylate	DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	74.3 mg/m³	General population	Systemic
te of issue/Date of revision : 5/	16/2023	Date of previous issue	: 10/26/20	022 Ve	ersion :1.03 7/20

required.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Plastic-Bond Hardener

	DNEL	Long term Inhalation	104 mg/m ³	General population	Local
	DNEL	Long term Inhalation	208 mg/m³	Workers	Local
	DNEL	Long term Inhalation	208 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	1.5 mg/cm ²	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	General population	Local
	DNEL	Short term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	Workers	Local
	DNEL	Long term Oral	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m³	General population	Local
	DNEL	Short term Inhalation	416 mg/m³	Workers	Local
oxydipropyl dibenzoate	DNEL	Long term Dermal	0.22 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.69 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	8.7 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	8.8 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	35.08 mg/ m³	Workers	Systemic
	DNEL	Short term Oral	80 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	80 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	170 mg/kg bw/day	Workers	Systemic
ethylenebis(oxyethylene) bis[3- 5-tert-butyl-4-hydroxy-m-tolyl) propionate]	DNEL	Long term Inhalation	3 mg/m³	Workers	Local
	DNEL	Short term Inhalation	3 mg/m³	Workers	Systemic
	DNEL	Long term	3 mg/m³	Workers	Systemic

SECTION 8: Exposure controls/personal protection

InhalationpopulationDNELLong term Oral55.8 µg/kgGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic populationDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemic populationDNELLong term Dermal188 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal188 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal185 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal185 mg/kg bw/dayWorkersSystemic populationDNELLong term Oral553.5 mg/ m³WorkersSystemic populationDNELLong term Oral0.33 mg/ kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal121 mg/kg bw/dayGener	ECTION 8: Exposure controls/personal protection					
cobaltbw/daypopulationiDNELLong term Dermal43 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal86 mg/kg bw/dayWorkersSystemiccobalt bis(2-ethylhexanoate)DNELLong term Oral55.8 µg/kg bw/dayGeneral populationLocalDNELLong term Oral55.8 µg/kg bw/dayGeneral populationSystemicI-methoxy-2-propanolDNELLong term Oral Inhalation33 mg/kg bw/dayGeneral populationSystemic1-methoxy-2-propanolDNELLong term Oral Inhalation33 mg/kg bw/dayGeneral populationSystemic1-methoxy-2-propanolDNELLong term Dermal Inhalation78 mg/kg bw/dayGeneral populationSystemic0NELLong term Dermal Inhalation78 mg/kg bw/dayGeneral populationSystemic0NELLong term Dermal Inhalation78 mg/kg bw/dayGeneral populationSystemic0NELLong term Dermal Inhalation78 mg/kg bw/dayGeneral populationSystemic0NELLong term Dermal Inhalation78 mg/kg bw/dayGeneral populationSystemic2-methoxymethylethoxy)propanolDNEL Inhalation13 mg/kg bw/dayWorkersSystemic2-methoxymethylethoxy)propanolDNEL Inhalation3.7 mg/m bopulationSystemicSystemic2-methoxymethylethoxy)propanolDNEL Inhalation2.7 mg/m bopulationGeneral Systemic <th></th> <th></th> <th>Inhalation</th> <th></th> <th></th> <th></th>			Inhalation			
bw/daypopulationDNELLong term Dermal86 mg/kg bw/dayWorkersSystemiccobalt bis(2-ethylhexanoate)DNELLong term Oral55,8 µg/kg bw/dayGeneral populationLocalDNELLong term Oral55,8 µg/kg bw/dayGeneral populationSystemicDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal869 mg/m2 bw/dayWorkersSystemicDNELLong term Dermal869 mg/m2 bw/dayGeneral populationSystemicDNELLong term Dermal869 mg/m2 m3General populationSystemicDNELLong term Oral0.33 mg/kg bw/dayGeneral populationSystemic(2-methoxymethylethoxy)propanolDNELLong term Oral0.33 mg/kg bw/dayGeneral populationSystemic(2-methoxymethylethoxy)propanolDNELLong term Dermal inhalation121 mg/kg bw/dayGeneral populationSystemic(2-methoxymethylet		DNEL	Long term Oral			Systemic
cobalt bis(2-ethylhexanoate)DNEL InhalationDNEL Inhalationbw/dayGeneral populationLocalDNEL InhalationLong term Oral55.8 µg/kg WorkersGeneral populationSystemic population1-methoxy-2-propanolDNEL Long term Oral133 mg/kg ImhalationGeneral populationSystemic population1-methoxy-2-propanolDNEL Long term Oral133 mg/kg ImhalationGeneral populationSystemic populationDNEL Long term Oral133 mg/kg ImhalationGeneral populationSystemic populationDNEL DNEL Long term Dermal18 mg/kg mg/kg ImhalationGeneral populationSystemic populationDNEL DNEL Long term Dermal183 mg/kg mg/kg ImhalationWorkersSystemic populationDNEL DNEL InhalationShort term m m355.5 mg/ mg/kg ImhalationWorkersSystemic population(2-methoxymethylethoxy)propanolDNEL DNEL InhalationShort term m m353.5 mg/ mg/kg ImhalationSystemic Systemic(2-methoxymethylethoxy)propanolDNEL DNEL InhalationCeneral mg/kg ImhalationSystemic Systemic(2-methoxymethylethoxy)propanolDNEL DNEL Inhalation121 mg/kg SystemicSystemic Systemic(2-methoxymethylethoxy)propanolDNEL DNEL Inhalation121 mg/kg SystemicSystemic Systemic(2-methoxymethylethoxy)propanolDNEL DNEL Inhalation121 mg/kg SystemicSystemic Systemic </td <td></td> <td>DNEL</td> <td>Long term Dermal</td> <td></td> <td></td> <td>Systemic</td>		DNEL	Long term Dermal			Systemic
InhalationpopulationDNELLong term Oral55.8 µg/kgGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic population1-methoxy-2-propanolDNELLong term Oral33 mg/kg bw/dayGeneral populationSystemic populationDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemic populationDNELLong term Dermal188 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal188 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal185 mg/kg bw/dayWorkersSystemic populationDNELLong term Dermal185 mg/kg bw/dayWorkersSystemic populationDNELLong term Oral369 mg/m² m³WorkersSystemic populationDNELLong term Oral0.33 mg/ kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal212 mg/kg bw/dayGeneral populationSystemic population(2-methoxymethylethoxy)propanolDNELLong term Dermal212 mg/kg bw/dayGener		DNEL	Long term Dermal		Workers	Systemic
Image: section of the section of th	cobalt bis(2-ethylhexanoate)	DNEL		37 µg/m³		Local
Inheliationm³m³m³m³m³m³m³m3<		DNEL	Long term Oral			Systemic
LettDescbw/daypopulationSystemicDNELLong term43.9 mg/m³General populationSystemicDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal183 mg/kg bw/dayWorkersSystemicDNELLong term Dermal183 mg/kg bw/dayWorkersSystemicDNELLong term369 mg/m³WorkersSystemicDNELLong term553.5 mg/ InhalationWorkersLocalDNELShort term Inhalation553.5 mg/ m³WorkersSystemicDNELLong term Oral0.33 mg/ general populationGeneral populationSystemicDNELLong term Inhalation37.2 mg/m³General populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal308 mg/m³WorkersSystemicDNELLong term Dermal121 mg/kg bw/dayWorkersSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term		DNEL			Workers	Local
InhalationpopulationDNELLong term Dermal78 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal183 mg/kg bw/dayWorkersSystemicDNELLong term Dermal183 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation369 mg/m³WorkersSystemicDNELShort term Inhalation553.5 mg/ m³WorkersLocalDNELShort term Inhalation553.5 mg/ m³WorkersSystemicDNELCong term Oral0.33 mg/ kg bw/dayGeneral populationSystemicDNELLong term Oral0.33 mg/ kg bw/dayGeneral populationSystemicDNELLong term Oral121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal208 mg/m³WorkersSystemicDNELLong term Dermal208 mg/m³WorkersSystemicDNELLong term Dermal208 mg/m³WorkersSystemicDNELLong term Dermal21mg/kg bw/dayWorkersSystemicDNELLong term Dermal21mg/kg bw/dayWorkersSystemicDNELLong term Dermal21mg/kg bw/dayWorkersSystemicDNELLong term Dermal21mg/kg bw/dayWorkersSystemicD	1-methoxy-2-propanol	DNEL	Long term Oral			Systemic
Image: biology of the section of th		DNEL		43.9 mg/m ³		Systemic
Image: Section of the system is a system in the system is system in the system is system in the system is system in the system in the system is system in the system in the system is system in the system in the system is system in the system in the system is system in the system in the system is system in the system i		DNEL	Long term Dermal			Systemic
InhalationInhalationInhalationDNELShort term Inhalation553.5 mg/ m³WorkersLocalDNELShort term Inhalation553.5 mg/ m³WorkersSystemic(2-methoxymethylethoxy)propanolDNELLong term Oral0.33 mg/ Rg bw/dayGeneral populationSystemic(2-methoxymethylethoxy)propanolDNELLong term Oral0.33 mg/ Rg bw/dayGeneral populationSystemicDNELLong term Inhalation37.2 mg/m³General populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal308 mg/m³WorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELShort term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELShort term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELShort term Dermal4 mg/kg bw/dayWorkersSystemicDNELLong term7.7 mg/m³WorkersSystemic		DNEL	Long term Dermal		Workers	Systemic
Inhalationm³ m³m³ m³WorkersSystemicDNELShort term Inhalation553.5 mg/ m³WorkersSystemic(2-methoxymethylethoxy)propanolDNELLong term Oral0.33 mg/ kg bw/dayGeneral populationSystemicDNELLong term Oral37.2 mg/m³General populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal308 mg/m³WorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal7.7 mg/m³WorkersSystemic		DNEL		369 mg/m³	Workers	Systemic
Inhalationm³m³m³(2-methoxymethylethoxy)propanolDNELLong term Oral0.33 mg/ kg bw/dayGeneral populationSystemicDNELLong term Inhalation37.2 mg/m³General populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Dermal308 mg/m³WorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term7.7 mg/m³WorkersSystemic		DNEL		•	Workers	Local
And Provide Andrew P		DNEL			Workers	Systemic
InhalationFor a populationDNELLong term Dermal121 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation308 mg/m³WorkersSystemicDNELLong term DNELSystemicSystemicSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELLong term Dermal4 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation7.7 mg/m³WorkersSystemic	(2-methoxymethylethoxy)propanol	DNEL	Long term Oral	0		Systemic
bw/daypopulationDNELLong term Dermal283 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation308 mg/m³WorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELDNELShort term Dermal4 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation7.7 mg/m³WorkersSystemic		DNEL		37.2 mg/m ³		Systemic
anilineDNELLong term Inhalation308 mg/m³WorkersSystemicDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELLong term Dermal4 mg/kg bw/dayWorkersSystemicDNELShort term Dermal4 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation7.7 mg/m³WorkersSystemic		DNEL	Long term Dermal			Systemic
InhalationInhalationInhalationInhalationanilineDNELLong term Dermal2 mg/kg bw/dayWorkersSystemicDNELShort term Dermal4 mg/kg bw/dayWorkersSystemicDNELLong term Inhalation7.7 mg/m³WorkersSystemic		DNEL	Long term Dermal	00	Workers	Systemic
DNELShort term Dermalbw/dayWorkersSystemicDNELLong term Inhalation7.7 mg/m³WorkersSystemic		DNEL		308 mg/m³	Workers	Systemic
DNELLong term Inhalation5.7 mg/m³WorkersSystemic	aniline	DNEL	Long term Dermal		Workers	Systemic
Inhalation		DNEL	Short term Dermal		Workers	Systemic
DNEL Short term 15.4 mg/m ³ Workers Systemic		DNEL		7.7 mg/m³	Workers	Systemic
		DNEL	Short term	15.4 mg/m³	Workers	Systemic

SECTION 8: Exposure controls/personal protection					
	Inhalation				
PNECe					

PNECs

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber ; 4 - 8 hours (breakthrough time): Viton®/butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

:

9.1 Information on basic physica	and ch	emical properties
<u>Appearance</u>		
Physical state	Liqui	d.
Color	Whit	e.
Odor	Shar	р.
Odor threshold	Not a	available.
Melting point/freezing point	Not a	available.
Initial boiling point and boiling range	Not a	available.
Flammability	flame	ly flammable in the presence of the following materials or conditions: open es, sparks and static discharge. mable in the presence of the following materials or conditions: heat.
Upper/lower flammability or explosive limits	Not a	available.
Flash point	Clos	ed cup: 10°C (50°F)
Auto-ignition temperature	Not a	applicable.
Decomposition temperature	Not a	available.
рН	Not a	applicable.
Viscosity	Kine	matic (40°C): >40 mm²/s
Solubility(ies)		
Not available.		
Solubility in water	Not a	available.
Miscible with water	No.	
Partition coefficient: n-octanol/ water	Not a	applicable.

Vapor pressure

	V	apor Press	ure at 20°C	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
methyl methacrylate	27.75	3.7					
1-methoxy-2-propanol	8.5	1.1					
aniline	0.3	0.04					
oxydipropyl dibenzoate	0	0	EU A.4	0	0	EU A.4	
elative density	: 0.97	7 to 1.01					
apor density	: Not	available.					
xplosive properties	: Not	available.					
xidizing properties	: Not	available.					
article characteristics							
Median particle size	: Not	applicable.					
2 Other information							
	: Not	available.					

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Reactive or incompatible with the following materials: oxidizing materials.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
methyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
oxydipropyl dibenzoate	LD50 Oral	Rat	3295 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
(2-methoxymethylethoxy) propanol	LD50 Dermal	Rabbit	10 mL/kg	-
	LD50 Oral	Rat	5.5 mL/kg	-
	LD50 Oral	Rat	5400 uL/kg	-
aniline	LC50 Inhalation Gas.	Rat	250 ppm	1 hours
	LD50 Dermal	Rat	1400 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	81818.18 mg/kg

Irritation/Corrosion

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Plastic-Bond Hardener

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
aniline	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Conclusion/Summary	: Not available.				
<u>Sensitization</u> Conclusion/Summary <u>Mutagenicity</u>	: Not available.				
Conclusion/Summary	: Not available.				
<u>Carcinogenicity</u> Conclusion/Summary	: Not available.				
<u>Reproductive toxicity</u> Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
methyl methacrylate	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
aniline	Category 1	-	-

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

SECTION 11: Toxicological information

Symptoms related to the physical sector of the sector sect	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - Pimephales promelas - Adult	96 hours
aniline	Acute EC50 175000 µg/l Fresh water	Algae - Chlorella pyrenoidosa	72 hours
	Acute EC50 20000 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 44 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 80 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
ate of issue/Date of revision	: 5/16/2023 Date of previous issue	: 10/26/2022 Version	:1.03 14/20

SECTION 12: Ecological information

Acute LC50 7600 µg/l Fresh water	Fish - Carassius auratus - Egg	4 days
Chronic NOEC 90000 µg/l Fresh water	Algae - Chlorella pyrenoidosa	72 hours
Chronic NOEC 4 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Chronic NOEC 0.422 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
		· · · · ·

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
methyl methacrylate	1.38	-	low
cobalt bis(2-ethylhexanoate)	-	15600	high
1-methoxy-2-propanol	<1	-	low
(2-methoxymethylethoxy) propanol	0.004	-	low
aniline	0.91	2.6	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

Date of issue/Date of revision	: 5/16/2023	Date of previous issue	: 10/26/2022	Version : 1.03	15/20

SECTION 13: Disposal considerations

Waste code	Waste designation	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
Type of packaging	European waste catalogue (EWC)	
15 01 10*	packaging containing residues of or contaminated by hazardous substances	
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1133	UN1133	UN1133
14.2 UN proper shipping name	ADHESIVES	ADHESIVES	Adhesives
14.3 Transport hazard class(es)	3		3
14.4 Packing group	II	11	11
14.5 Environmental hazards	Yes. 3,5-diethyl-1,2-dihydro- 1-phenyl-2-propylpyridine	Yes. 3,5-diethyl-1,2-dihydro- 1-phenyl-2-propylpyridine	Yes. The environmentally hazardous substance mark is not required.

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 30

Limited quantity 5 L

Special provisions 640 (C)

<u>Tunnel code</u> (D/E) <u>Remarks</u> containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa) <u>ADR Classification Code:</u> F1

IMDG : Emergency schedules F-E, S-D Special provisions 223, 955 Viscous liquid exception Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

Plastic-Bond Hardener				
SECTION 14: Transp	ort information			
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations. <u>Quantity limitation</u> Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. <u>Special provisions</u> A3 			
14.6 Special precautions for user	• Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in bulk according to IMO instruments	: Not available.			
SECTION 15: Regula	tory information			
15.1 Safety, health and envi	onmental regulations/legislation specific for the substance or mixture			
EU Regulation (EC) No. 190	<u>7/2006 (REACH)</u>			
Annex XIV - List of substa	nces subject to authorization			
Annex XIV				
None of the components a				
Substances of very high				
None of the components a				
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Restrictions on Manufact	ure. Marketing and Use			
CountryProduct name	Conc. Designation Usage			
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Ozone depleting substan	<u>es (1005/2009/EU)</u>			
Not listed.				
Prior Informed Consent (F Not listed.	<u>'IC) (649/2012/EU)</u>			
Persistent Organic Polluta Not listed.	<u>ints</u>			
<u>VOC content</u> VOC (g/L) <u>Seveso Directive</u>	: 50.7 % : 510			

This product is controlled under the Seveso Directive.

SECTION 15: Regulatory information

Danger criteria

Category

P5c E2

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
cobalt bis(2-ethylhexanoate)	DFG MAC-values list	Cobalt and cobalt compounds (inhalable fraction)	K2, M3	-
	Germany TRGS905	Cobalt-Verbindungen (in Form atembarer Stäube/Aerosole), ausge-nommen die in dieser Liste bzw. in Anhang VI Teil 3 der CLP-Verordnung namentlich aufgeführten Cobaltverbindungen, Cobalt-haltigen Spinellen und organischen Cobalt- Sikkativen	КЗ	
aniline	DFG MAC-values list	Aniline	КЗ	-

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

<u>Danger criteria</u>

Category		Reference number
P5c E2		1.2.5.3 1.3.2
Hazard class for water	: 2	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 60-72%	
AOX	: The product does not contain organically bound AOX value in waste water.	d halogens which could lead to an
nternational regulations		
hemical Weapon Convent	ion List Schedules I, II & III Chemicals	
Not listed.		
Iontreal Protocol		
Not listed.		
tockholm Convention on F	Persistent Organic Pollutants	
Not listed.		
Cotterdam Convention on F	Prior Informed Consent (PIC)	
Not listed.		
NECE Aarhus Protocol on	POPs and Heavy Metals	
Not listed.		
ventory list		

SECTION 15: Regulatory information

:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	Russian Federation inventory: All components are listed or exempted.
:	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	Not determined.
:	All components are active or exempted.
:	Not determined.
:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
2	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Justification
On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Full text of abbreviated H statements

Date of issue/Date of revision	: 5/16/2023	Date of previous issue	: 10/26/2022	Version :	1.03	19/20
H372		Causes damage to	organs through prolo	onged or repeate	d	
H360F		May damage fertilit			_	
H351		Suspected of causi				
H341		Suspected of causi				
H336		May cause drowsin				
H335		May cause respirat				
H331		Toxic if inhaled.				
H319		Causes serious eye	e irritation.			
H318		Causes serious eye	e damage.			
H317		May cause an aller	gic skin reaction.			
H315		Causes skin irritatio	on.			
H311		Toxic in contact wit	h skin.			
H302		Harmful if swallowe	ed.			
H301		Toxic if swallowed.				
H226		Flammable liquid a	nd vapor.			
H225		Highly flammable li	quid and vapor.			

SECTION 16: Other	^r information	
11400		exposure.
H400 H410		Very toxic to aquatic life.
H410 H411		Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
H412		Harmful to aquatic life with long lasting effects.
		Training to aquatic me with ong lasting enects.
Full text of classifications		
Acute Tox. 3		ACUTE TOXICITY - Category 3
Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Acute 1		AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1		AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2		AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3
Carc. 2		CARCINOGENICITY - Category 2
Eye Dam. 1		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3
Muta. 2		GERM CELL MUTAGENICITY - Category 2
Repr. 1B		TOXIC TO REPRODUCTION - Category 1B
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1		SKIN SENSITIZATION - Category 1
Skin Sens. 1A		SKIN SENSITIZATION - Category 1A
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 3
Date of printing	: 5/16/2023	
Date of issue/ Date of	: 5/16/2023	
revision		
Date of previous issue	: 10/26/2022	
Version	: 1.03	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.