

SAFETY DATA SHEET

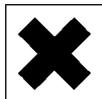
according to Regulation
(EU) No. 1907/2006

Semparoc Rapid V

1. Identification of the substance/preparation and of the company/undertaking

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| Use of the Substance/Preparation | Wood adhesive. |
| Company/Undertaking Identification | Collano Adhesives AG Eichenstrasse 12 CH-6203 Sempach-Station Tel. +41 41 469 91 11 Fax +41 41 469 91 12 www.collano.com sdb@collano.com |
| Emergency telephone number | +41 41 469 94 34 (+41 44 251 51 51 Tox Center) |
| Revision Date | 07.10.2010 |
| Version | 3 |

2. Hazards identification



Xn - Harmful.

Harmful by inhalation. Limited evidence of a carcinogenic effect. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Contains isocyanates. See information supplied by the manufacturer.

3. Composition/information on ingredients

Chemical characterization Isocyanate hardener

| Components | | EC-Symbol(s) | R-phrased(s) | CAS | EC-No. |
|--|-------|--------------|------------------------------|----------|-----------|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate | > 50% | Xn | R-20-36/37/38-40-42/43-48/20 | 101-68-8 | 202-966-0 |

4. First aid measures

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| Inhalation | Move to fresh air in case of accidental inhalation of vapours or decomposition products. |
| Skin contact | Wash off with soap and plenty of water. |
| Eye contact | Remove contact lenses. Keep eye wide open while rinsing. |
| Ingestion | Call a physician immediately. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water spray. Foam. Dry powder. Carbon dioxide (CO ₂). |
| Extinguishing media which must not be used for safety reasons | None. |
| Specific hazards | In case of fire a dense black smoke is formed. In the event of fire do not breathe in. In the event of fire carbon monoxide, nitrogen oxides, vapours of isocyanate and traces of cyanic acid may be formed. |
| Special protective equipment for firefighters | In the event of fire, wear self contained breathing apparatus. |

6. Accidental release measures

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| Personal precautions | Ensure adequate ventilation. |
| Environmental precautions | Do not flush into surface water or sanitary sewer system. |
| Methods for cleaning up | Take up mechanically and collect in suitable container for disposal. |

7. Handling and storage

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| Handling | Provide sufficient air exchange and/or exhaust in work rooms. |
| Storage | Keep containers dry and tightly closed to avoid moisture absorption and contamination. |

8. Exposure controls / personal protection

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| Germany | 4,4'-Methyldiphenyldiisocyanat Grenzwert 0,05 mg/m ³ Spitzenbegrenzung: Konzentration darf Grenzwertkonzentration nicht überschreiten. |
| Occupational exposure controls | Ensure adequate ventilation, especially in confined areas. |
| Personal protection equipment | |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hand protection | Impervious gloves. Appropriate protection gloves resistant to chemicals (EN 374): polychloroprene Butylrubber. Nitrile rubber. Pay attention to the indications of the gloves producers on penetration and breakthrough time. Recommendation: dispose contaminated gloves. |
| Eye protection | Avoid contact with eyes. Safety glasses with side-shields. |

9. Physical and chemical properties

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| Form | Liquid. |
| Colour | Yellowish. |
| Odour | Very faint. Aromatic. |

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| Physical and chemical properties | Flash point: > 200 °C. Water solubility: hydrolyses Relative density: 1.15 g/ml. Viscosity: 3900 mPa.s (20 °C). Decomposition temperature: > 480 °C. |
| 10. Stability and reactivity | |
| Stability | No decomposition if stored and applied as directed. |
| Conditions to avoid | Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. |
| Materials to avoid | Amines. |
| Hazardous decomposition products | None reasonably foreseeable. |
| 11. Toxicological information | |
| Acute toxicity | LD50/oral/rat >= 15000 mg/kg. 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate LD50/oral/rat = 4700 mg/kg. |
| Local effects | Contact with eyes or skin causes irritation. Harmful by inhalation. After prolonged skin contact tanning and irritating reactions may occur. |
| Sensitization | May cause sensitisation by inhalation. For oversensitized persons allergic reactions may occur even at isocyanate concentrations below the MAK-value. |
| Further information | Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. |
| 12. Ecological information | |
| Ecotoxicity | Ecological injuries are not known or expected under normal use. |
| 13. Disposal considerations | |
| Waste from residues / unused products | Dispose of as special waste in compliance with local and national regulations. |
| Contaminated packaging | Empty containers should be taken for local recycling, recovery or waste disposal. |
| 14. Transport information | |
| Further Information | Not classified as dangerous in the meaning of transport regulations. |

15. Regulatory information

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| EC-Symbol(s) | Xn - Harmful. |
| R-phrases(s) | R20: Harmful by inhalation. R40: Limited evidence of a carcinogenic effect. R36/37/38: Irritating to eyes, respiratory system and skin. R42/43: May cause sensitisation by inhalation and skin contact. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| S-phrase(s) | S2: Keep out of the reach of children. S23: Do not breathe vapour/spray S36/37: Wear suitable protective clothing and gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46: If swallowed, seek medical advice immediately and show this container or label. S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest. |
| Additional Hints | Contains isocyanates. See information supplied by the manufacturer. |
| Hazardous components which must be listed on the label | 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate, CAS-No. 101-68-8, EC-No. 202-966-0 |
| Regulatory Information | The product is classified and labelled in accordance with EC directives or respective national laws. Water contaminating class 1. Merkblatt BG Chemie: M050 Umgang mit Gefahrstoffen (für die Beschäftigten) M056 ODIN-Schlüsselverzeichnis "Krebserzeugende Gefahrstoffe" |

16. Other information

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| Recommended use | Exposition scenarios (Use Descriptors) which are supported by the manufacturer, according to FEICA (for adhesives) and CEPE (for application in paints and colors): I2, P2. Definition of codes: FEICA: http://www.feica.com EHS - Sustainability/REACH/FEICA Use Descriptor/User Descriptor for registrants/ FEICA UseR with Applications CEPE: http://www.cepe.org |
| Text of R phrases mentioned in Section 3 | R20: Harmful by inhalation. R40: Limited evidence of a carcinogenic effect. R36/37/38: Irritating to eyes, respiratory system and skin. R42/43: May cause sensitisation by inhalation and skin contact. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| Further information | Modifications in the following chapters since the last version: 16. |
| Disclaimer | The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. It is not to be considered a warranty or quality specification. |