RESIN MILL EUROPE BV

Safety Data Sheet

Resin Bound PRO UVR Part B

Version 2.1 | Revision date 19-10-2026 | Supersedes version 2.0 of 22-09-2026 | Language EN

EU English master (Belgium base). Final English master for Belgium and translation. Before issue in another EU Member State, localise Section 1.4, Section 8 and Section 15.

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

1.1 Product identifier

Product name	HEXAMETHYLENE DIISOCYANATE, OLIGOMERS
Product code	51230
Trade name	Resin Bound PRO UVR Part B
Other identification	WANNATE HT-100 PLUS
REACH registration number	01-2119485796-17-XXXX
EC number	931-274-8
Pure substance/mixture	Substance

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

Recommended use	Hardener / binding agent component for two-component polyurethane resin-bound surfacing systems.
Uses advised against	Uses other than those described above without appropriate technical and risk assessment.
User restriction	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

UK brand owner / repacker	Resin Mill Ltd Unit 7-8 The Ringway Centre Beck Road Huddersfield HD1 5DG United Kingdom Tel: +44 (0)1484 400855 Email: sales@resinmill.co.uk
Supplier placing product on the EU market	Resin Mill Europe BV Diebeke 1A 9500 Geraardsbergen Belgium BE 1038.772.901 Tel: +32 16 16 10 18 Email: hello@resinmill.eu
Competent person responsible for this safety data sheet	hello@resinmill.eu

1.4 Emergency telephone number

Belgian Poison Centre	070 245 245 (24 hours / 7 days)
European emergency number	112 (life-threatening emergencies)
Supplier contact	+32 16 16 10 18 (Monday to Friday, 8:00 to 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class	Classification
Acute toxicity - inhalation (gases)	Category 4 - H332
Acute toxicity - inhalation (vapours)	Category 4 - H332
Acute toxicity - inhalation (dusts/mists)	Category 4 - H332
Skin sensitisation	Category 1 - H317
Specific target organ toxicity - single exposure	Category 3 - H335

2.2 Label elements

Hazard pictogram	 GHS07
Signal word	Warning
Hazard statements	H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation.
Precautionary statements	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves and eye/face protection. P284 - Wear respiratory protection. P302 + P352 - IF ON SKIN: Wash with plenty of water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
Contains	HDI OLIGOMERS, ISOCYANURATE; residual HEXAMETHYLENE DIISOCYANATE <0.1% w/w.
Additional information	This product requires tactile warnings if supplied to the general public.

2.3 Other hazards

PBT / vPvB assessment	The product does not contain any substance(s) classified as PBT or vPvB.
Endocrine disruptor information	This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight %	REACH registration	EC No	CLP classification
HDI OLIGOMERS, ISOCYANURATE	>99.9	01-2119485796-17-XXXX	931-274-8	Acute Tox. 4 H332; Skin Sens. 1 H317; STOT SE 3 H335
HEXAMETHYLENE DIISOCYANATE, CAS 822-06-0	<0.1	01-2119457571-37-XXXX	212-485-8	Skin Sens. 1 H317; Eye Irrit. 2 H319; Resp. Sens. 1 H334; Acute Tox. 2 H330; Acute Tox. 4 H302; Skin Irrit. 2 H315; STOT SE 3 H335

Acute toxicity estimate - component data

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 (4 h, dust/mist)
HDI OLIGOMERS, ISOCYANURATE	>2500 mg/kg	>2000 mg/kg	No data available
HEXAMETHYLENE DIISOCYANATE	738 mg/kg	7000 mg/kg	0.06 mg/L

This product does not contain candidate substances of very high concern at a concentration >=0.1% under REACH Article 59.

Supplier specification: free monomeric HDI <0.10% by weight.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If exposed or concerned, get medical advice/attention. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions, see a doctor.
Ingestion	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapours or mists. Use personal protective equipment as required. See Section 8.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Itching, rashes, hives, coughing and/or wheezing, difficulty in breathing.
Inhalation	Coughing and/or wheezing; difficulty in breathing.
Dermal	Hives, itching, rashes. Allergic reaction symptoms may include rash, itching, swelling, trouble breathing, tingling of hands/feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

4.3 Indication of any immediate medical attention and special treatment needed

May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures appropriate to local circumstances and the surrounding environment.
Large fire	CAUTION: use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high-pressure water streams.

5.2 Special hazards arising from the substance or mixture

Specific hazards	Product is or contains a sensitiser. May cause sensitisation by skin contact.
Hazardous combustion products	Carbon oxides, nitrogen oxides (NOx), hydrocarbons, hydrogen cyanide and isocyanates.

5.3 Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.
For emergency responders	Use personal protection recommended in Section 8.

6.2 Environmental precautions

See Section 12 for additional ecological information.

6.3 Methods and material for containment and cleaning up

Containment	Prevent further leakage or spillage if safe to do so.
Cleaning up	Collect with absorbent, non-combustible material into suitable containers.
Secondary hazards	Clean contaminated objects and areas thoroughly, observing environmental regulations.

6.4 Reference to other sections

See Section 8 for exposure controls/personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. If ventilation is insufficient, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.
General hygiene	Wash face, hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight and moisture. Keep away from food, drink and animal feedingstuffs. Do not seal containers holding uncured residues or product that has been in contact with water: isocyanates react with moisture and liberate carbon dioxide, which can cause pressure to build up in a closed container.

7.3 Specific end use(s)

See Section 1.2. Risk management information is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Belgium occupational exposure limits for diisocyanates (measured as NCO):

Reference period	Limit to 31-Dec-2028	Limit from 1-Jan-2029	Notes
8-hour TWA	0.010 mg NCO/m3	0.006 mg NCO/m3	Belgian Codex Book VI, Title 1
Short-term (15 min)	0.020 mg NCO/m3	0.012 mg NCO/m3	Additional classification D

Country-specific occupational exposure limits must be checked and substituted before this EU master is issued in another Member State.

Derived No Effect Level (DNEL) - workers

Chemical name	Inhalation DNEL	Basis
HDI OLIGOMERS, ISOCYANURATE	0.5 mg/m3	Local health effects; long-term
HEXAMETHYLENE DIISOCYANATE (CAS 822-06-0)	0.07 mg/m3	Local health effects; short-term

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Marine water	Freshwater sediment	Marine sediment	STP	Soil
HDI OLIGOMERS, ISOCYANURATE	0.127 mg/L	0.0127 mg/L	0.2267 mg/L	0.02667 mg/L	38.28 mg/L	0.532 mg/L
HEXAMETHYLENE DIISOCYANATE	>0.0774 mg/L	>0.00774 mg/L	>0.01334 mg/kg	>0.001334 mg/kg	8.42 mg/L	>0.0026 mg/kg

8.2 Exposure controls

Engineering controls	Apply technical measures to comply with occupational exposure limits. Ensure adequate ventilation, especially in confined areas.
Eye/face protection	Wear safety glasses with side shields or chemical goggles. Eye protection should comply with EN 166.
Hand protection	Wear suitable chemical-resistant gloves conforming to EN 374. Recommended examples from supplier data: butyl rubber / EVAL / neoprene >=0.5 mm, or nitrile / PVC >=0.35 mm; target breakthrough time >=480 minutes. Confirm suitability with glove supplier.
Skin/body protection	Wear suitable protective clothing.
Respiratory protection	Where exposure may exceed applicable limits, use appropriate certified respiratory protection. Supplier recommendation: combination filter type A2/P2. A task-specific risk assessment may require a higher level of protection.
Hygiene	Do not eat, drink or smoke when using this product. Wash face, hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace and should be washed before reuse.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state / appearance	Liquid
Colour	Colourless to slight yellow
Odour	Odourless
Odour threshold	No information available
Melting point / freezing point	-24 °C
Initial boiling point and range	No information available
Flammability	No information available
Upper flammability / explosive limit	9.5% v/v
Lower flammability / explosive limit	0.9% v/v
Flash point	228 °C
Autoignition temperature	460 °C
Decomposition temperature	~250 °C

pH	No information available
Dynamic viscosity	1750-3250 mPa.s at 25 °C
Water solubility	Immiscible in water
Partition coefficient	9.81
Vapour pressure	0.00246 Pa at 20 °C
Relative density	~1.16 g/cm3 at 25 °C
Explosive properties	No information available
Oxidising properties	No information available

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under recommended storage conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Water may react with the product. Reaction with water or moisture liberates carbon dioxide; pressure may build up in closed containers.
10.4 Conditions to avoid	Excessive heat. Keep from freezing. Protect from moisture and exposure to light.
10.5 Incompatible materials	Water, acids, alcohols, amines and strong oxidising agents.
10.6 Hazardous decomposition products	Carbon oxides, nitrogen oxides (NOx), hydrocarbons, hydrogen cyanide and isocyanates.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation	May cause irritation of the respiratory tract. Harmful by inhalation (based on components).
Eye contact	Specific test data for the product is not available.
Skin contact	May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions in susceptible persons.
Ingestion	Specific test data for the product is not available.
Symptoms	Itching, rashes, hives, coughing and/or wheezing.

Acute toxicity - component information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
HDI OLIGOMERS, ISOCYANURATE	>2500 mg/kg (rat)	>2000 mg/kg (rat)	No data available
HEXAMETHYLENE DIISOCYANATE	738 mg/kg (rat)	>7000 mg/kg (rat)	0.06 mg/L (rat), 4 h

Delayed and immediate effects / chronic effects

Skin corrosion/irritation	May cause slight irritation. HDI oligomer: OECD 404, rabbit, dermal, 4 h - may cause slight irritation.
Serious eye damage/irritation	May cause slight eye irritation. HDI oligomer: OECD 405, rabbit eye, 72 h - may cause slight eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction. HDI oligomer: OECD 406, guinea pig, dermal - sensitising.

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation. HDI oligomer: OECD 413, rat, inhalation aerosol, 3.3 mg/m3, 13 weeks - NOAEL.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors.
11.2.2 Other information	No information available.

SECTION 12: Ecological information

12.1 Toxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Microorganisms	Crustacea
HDI OLIGOMERS, ISOCYANURATE	EC50 >1000 mg/L, 72 h	LL0 >=100 mg/L Danio rerio, 96 h	EC50 3828 mg/L activated sludge, 3 h	EL50 127 mg/L Daphnia magna, 48 h
HEXAMETHYLENE DIISOCYANATE	-	LC50 26.1 mg/L, 96 h	-	-

12.2 Persistence and degradability	Not readily biodegradable. HDI oligomer: OECD 301D closed bottle test, 28 days, 1% biodegradation.
12.3 Bioaccumulative potential	Not likely to bioaccumulate.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	The product does not contain any substance(s) classified as PBT or vPvB. Hexamethylene diisocyanate is not PBT / vPvB.
12.6 Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors.
12.7 Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused product	Waste is classified as hazardous waste. Dispose to a licensed waste disposal site in accordance with the local Waste Disposal Authority and applicable legislation.
Contaminated packaging	Do not reuse empty containers. Dispose of in accordance with applicable local requirements.

SECTION 14: Transport information

Mode	UN number / ID	Proper shipping name	Class	Packing group	Environmental hazard
ADR	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
RID	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IATA	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable

14.6 Special precautions for user: none specified. 14.7 Maritime transport in bulk according to IMO instruments: no information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 (REACH), as amended, including Regulation (EU) 2020/878 for SDS requirements.
- Regulation (EC) No 1272/2008 (CLP), as amended.
- Directive 98/24/EC on protection of workers from risks related to chemical agents at work.
- REACH Annex XVII Entry 74 (diisocyanates). Supplier specification confirms free monomeric HDI <0.10% w/w.
- Belgium: Codex on Well-being at Work, Book VI, Title 1 (Chemical Agents), as amended by Royal Decree of 25 May 2026. Current diisocyanate OELs are listed in Section 8.
- This product does not contain substances subject to authorisation under REACH Annex XIV, based on supplier information.
- Persistent Organic Pollutants: not applicable. Ozone-depleting substances: not applicable.

Local regulatory requirements must be reviewed before this master is issued in another EU Member State.

International inventories

Inventory	Status
TSCA	Contact raw-material supplier for inventory compliance status
DSL/NDSL	Contact raw-material supplier for inventory compliance status
EINECS/ELINCS	Contact raw-material supplier for inventory compliance status
ENCS	Contact raw-material supplier for inventory compliance status
IECSC	Contact raw-material supplier for inventory compliance status
KECL	Contact raw-material supplier for inventory compliance status
PICCS	Contact raw-material supplier for inventory compliance status
AIIC	Contact raw-material supplier for inventory compliance status
NZIoC	Contact raw-material supplier for inventory compliance status

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for the underlying WANNATE HT-100 PLUS substance according to the current supplier SDS.

SECTION 16: Other information

Full text of H-statements referred to in Section 3

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H330 - Fatal if inhaled.
- H332 - Harmful if inhaled.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.

Abbreviations

TWA	Time-weighted average
STEL	Short-term exposure limit

DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative
SVHC	Substance of Very High Concern
NOAEL	No Observed Adverse Effect Level

Classification procedure

Endpoint	Method used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Source data and revision basis

Technical master	Univar Solutions Ireland EU SDS, product 60878, WANNATE HT-100 PLUS, revision 21-Nov-2023 (REACH / Regulation (EU) 2020/878).
Raw-material manufacturer TDS	Wanhua Chemical Group Co., Ltd., WANNATE HT-100plus, TDS PCS_0060, revision 24-Jan-2019.
Product identity basis	Resin Mill confirmation: Resin Bound PRO UVR Part B is WANNATE HT-100 PLUS repacked without additives or modification.
Supersedes	Resin Mill Part B SDS version 2.0, revision 22-09-2026.
Issue revision	Version 2.1, 19-10-2026: supplier telephone number in sections 1.3 and 1.4 changed to +32 16 16 10 18 (Monday to Friday, 8:00 to 17:00); no change to hazard information, classification or protective measures. Version 2.0, 22-Sep-2026. Changes against version 1.0: SDS structure aligned with Regulation (EU) 2020/878; EU supplier and competent-person details added; free monomeric HDI specification stated; Belgian occupational exposure limits, DNELs and PNECs added; Section 11 aligned with Section 2 classification; Section 15 references updated; P271 added; closed-container warning added in Sections 7.2 and 10.3. Batch-specific certificates are maintained separately in the technical file.

Belgian exposure data checked against the Belgian Codex on Well-being at Work, Book VI, Title 1, as amended in 2026. Belgian Poison Centre emergency number checked against the Centre Antipoisons official guidance.

Disclaimer and translation control

The information in this Safety Data Sheet is based on supplier data and regulatory sources available at the revision date. It is intended as guidance for safe handling, use, processing, storage, transportation, disposal and release of the specific material identified. It is not a quality specification. This document is the final English master for translation for the Belgian market. Translations must reproduce the technical content accurately. Before issue in another EU Member State, Sections 1.4, 8 and 15 must be reviewed and localised as required.

End of Safety Data Sheet