18.07.2023	Kit components
Product code	Description
332	Variobond set
Components:	
330	Variobond base component
331	Variobond hardener



Printing date 18.07.2023 Version number 49 (replaces version 48) Revision: 19.06.2023

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

· 1.1 Product identifier

· Trade name: Variobond base component

· Article number: 330

· UFI: F9H2-50W8-M00Y-YSC6

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

· Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

SU19 Building and construction work

Product category
 Property
 Process category
 Process category
 Process plasters, plasters, modelling clay
 PROC19
 Manual activities involving hand contact

ERC8c Widespread use leading to inclusion into/onto article (indoor) ERC8f Widespread use leading to inclusion into/onto article (outdoor)

· Article category AC13 Plastic articles

· Application of the substance / the

mixture See our technical datasheet for application details of this product.

Epoxy resin adhesive

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht

Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

· Further information obtainable

from: Research and Development.

· 1.4 Emergency telephone

number: De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl

Office hours: working days from 08:00 to 17:00 hrs.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

(!) GHS07

Skin Irrit. 2
Eye Irrit. 2
Skin Sens. 1
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms

· Hazard statements

GHS07 GHS09

· Signal word Warning

· Hazard-determining components of

labelling: bis[4-(2,3-epoxypropoxy)phenyl]propane

reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular

weight \leq 700)

1,6-bis(2,3-epoxypropoxy)hexane H315 Causes skin irritation. H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.
P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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P362+P364 Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. P333+P313 P337+P313 If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/

national/international regulations.

P501

· 2.3 Other hazards

· Results of PBT and vPvB assessment

Not applicable. · PBT: Not applicable. · vPvB:

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Mixture of substances listed below with nonhazardous additions. · Description:

· Dangerous components:	· Dangerous components:		
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	25 – 50%	
EINECS: 216-823-5 Index number: 603-073-00-2	Aquatic Chronic 2, H411; O Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317		
Reg.nr.: 01-2119456619-26	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %		
CAS: 9003-36-5	reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average	10 – 25%	
NLP: 500-006-8	molecular weight ≤ 700)		
Reg.nr.: 01-2119454392-40	Aquatic Chronic 2, H411; 🗘 Skin Irrit. 2, H315; Skin Sens. 1, H317, EUH205		
CAS: 933999-84-9	1,6-bis(2,3-epoxypropoxy)hexane	10 – 25%	
EC number: 618-939-5 Reg.nr.: 01-2119463471-41	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412		

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult

No further relevant information available.

a doctor.

· After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and

delayed

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

the substance or mixture No further relevant information available.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

Do not allow product to reach sewage system or any water course. · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Ensure good ventilation/exhaustion at the workplace.

Not required.

Prevent formation of aerosols.

· Information about fire - and

explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: Store material in original, tightly closed containers in a cool, well-ventilated area in

accordance with applicable (local) regulations. Depending on total volume stored, the

storage area should comply with PGS15.

· Information about storage in one

common storage facility:

· Further information about storage

conditions:

· Recommended storage

temperature: · 7.3 Specific end use(s) Keep container tightly sealed.

5 - 30 \square No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the

workplace: The product does not contain any relevant quantities of materials with critical values that

have to be monitored at the workplace

	have to be monitored at the workplace.		
· DNEL (De	· DNEL (Derived No Effect Level) for workers		
1675-54-3	1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Dermal	Long-term - systemic effects, worker	0.75 mg/kg bw/day (Worker)	
Inhalative	Long-term - systemic effects, worker	4.93 mg/m³ (Worker)	
9003-36-5	reaction product: bisphenol-F-(epi	chlorhydrin) epoxy resin (number average molecular weight ≤ 700)	
Dermal	Acute - local effects,worker	8.3 μg/cm² (Worker)	
	Long-term - systemic effects, worker	104.15 mg/kg bw/day (Worker)	
Inhalative	Long-term - systemic effects, worker	29.39 mg/m³ (Worker)	
933999-84	I-9 1,6-bis(2,3-epoxypropoxy)hexan	e	
Dermal	Long-term - systemic effects, worker	2.8 mg/kg bw/day (Worker)	
	Long term - local effects, worker	22.6 μg/cm² (Worker)	
Inhalative	Long-term - systemic effects, worker	10.57 mg/m³ (Worker)	
	Long-term - local effects, worker	0.44 mg/m³ (Worker)	
· DNEL (De	rived No Effect Level) for the general	population	
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]pr	opane	
Oral	Long-term - systemic effects, genera	population 0.5 mg/kg bw/day (General population)	
Dermal	Long-term - systemic effects, genera	l population 0.0893 mg/kg bw/day (General population)	
Inhalative	Long-term - systemic effects, genera	l population 0.87 mg/m³ (General population)	
9003-36-5		chlorhydrin) epoxy resin (number average molecular weight ≤ 700)	
Oral		l population 6.25 mg/kg bw/day (General population)	
Dermal		l population 62.5 mg/kg bw/day (General population)	
Inhalative	Long-term - systemic effects, genera	l population 8.7 mg/m³ (General population)	

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(Contd. of page 3) 933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane Acute - systemic effects, general population 0.83 mg/kg bw/day (General population) Long-term - systemic effects, general population 0.83 mg/kg bw/day (General population) Dermal Acute - systemic effects, general population 1.7 mg/kg bw/day (General population) Acute - local effects, general population 13.6 µg/cm² (General population) Long-term - systemic effects, general population 1.7 mg/kg bw/day (General population) Long-term - local effects, general population 13.6 µg/cm² (General population) Inhalative Acute - systemic effects, general population 2.9 mg/m³ (General population) Long-term - systemic effects, general population 2.9 mg/m³ (General population) Long-term - local effects, general population 0.27 mg/m³ (General population) · PNEC (Predicted No Effect Concentration) values 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic compartment - freshwater 0.006 mg/l (Freshwater) 0.001 mg/l (Marine water) Aquatic compartment - marine water Aquatic compartment - sediment in freshwater 0.341 mg/kg sed dw (Sediment freshwater) Aquatic compartment - sediment in marine water 0.034 mg/kg sed dw (Sediment marine water) Terrestrial compartment - soil 0.065 mg/kg dw (Soil) 10 mg/l (stp) Sewage treatment plant 11 mg/kg food (Food sec poisoning) Oral secondary poisoning 9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 0.003 mg/l (Freshwater) Aquatic compartment - freshwater Aquatic compartment - marine water 0.0003 mg/l (Marine water) 0.0254 mg/l (Intermittent release water) Aquatic compartment - water, intermittent releases Aquatic compartment - sediment in freshwater 0.294 mg/kg sed dw (Sediment freshwater) Aquatic compartment - sediment in marine water 0.0294 mg/kg sed dw (Sediment marine water) Terrestrial compartment - soil 0.237 mg/kg dw (Soil) Sewage treatment plant 10 mg/l (stp) 933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane 0.0115 mg/l (Freshwater) Aquatic compartment - freshwater Aquatic compartment - marine water 0.0015 mg/l (Marine water) Aquatic compartment - water, intermittent releases 0.115 mg/l (Intermittent release water) Aquatic compartment - sediment in freshwater 0.283 mg/kg sed dw (Sediment freshwater)

Aquatic compartment - sediment in marine water

Additional information: The lists valid

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7. · Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

0.283 mg/kg sed dw (Sediment marine water)

· Hand protection Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/

the preparation.

Due to missing tests no recommendation to the glove material can be given for the

product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

· Material of gloves Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: $\geq 0.3 \ \text{mm}$

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Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Not suitable are gloves made of

Leather gloves

the following materials:

Strong material gloves

· Eye/face protection

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on ba	sic physical and	chemical pr	roperties
-------------------------	------------------	-------------	-----------

· General Information

· Physical state Fluid

· Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range Undetermined. · Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 0.0 Vol % · Upper: 0.0 Vol %

151 °C (Pensky Martens, ASTM D93) Flash point:

· Auto-ignition temperature: 460 °C · Decomposition temperature: Not determined.

· pH at 20 °C · Viscosity:

· Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure: Not determined.

Density and/or relative density

· Density at 20 °C: 1.468 g/cm3 (DIN 51757, ASTM D 1298)

 Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid · Important information on protection of health and

environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

Void

· VOC:

· VOC (2004/42/EC): 0.00 % · Solids content: 100.0 %

· Change in condition

· Flammable solids

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void · Aerosols Void Void · Oxidising gases · Gases under pressure Void · Flammable liquids Void

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		,	
· Self-reactive substances and mixtures	Void		
· Pyrophoric liquids	Void		
Pyrophoric solids	Void		
Self-heating substances and mixtures	Void		
· Substances and mixtures, which emit flammable	e gases in		
contact with water	Void		
· Oxidising liquids	Void		
· Oxidising solids	Void		
· Organic peroxides	Void		
· Corrosive to metals	Void		
· Desensitised explosives	Void		
. Desensinsed exhiosives	void		

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions No dangerous reactions known.

10.4 Conditions to avoid
 10.5 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

· 10.6 Hazardous decomposition

products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

 Compor 	nents	Туре	Value	Species	
9003-36	5-5 rea	ction product: bispheno	I-F-(epicl	chlorhydrin) epoxy resin (number average molecular weight ≤ 700)	
Oral	LD50	23,800 mg/kg (Rat)			
Dermal	LD50	> 2,000 mg/kg (Rabbit)			
		,6-bis(2,3-epoxypropoxy)hexane)	
Oral	LD50	2,900 mg/kg (Rat)			
Dermal	LD50	> 4,900 mg/kg (Rat)			
Dermal 933999 Oral	LD50 - 84-9 1 LD50	> 2,000 mg/kg (Rabbit) ,6-bis(2,3-epoxypropoxy 2,900 mg/kg (Rat))hexane	9	

Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitisation
 Corm cell mutagenisity

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Respect on available data, the classification of the properties of the propertie

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

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· 12.6 Endocrine disrupting properties

12.7 Other adverse effects

The product does not contain substances with endocrine disrupting properties.

· General notes:

· Additional ecological information:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Toxic for fish

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

	· European waste catalogue		
	08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
ı	08 01 00	08 01 00 wastes from MFSU and removal of paint and varnish	
Ī	08 01 11* waste paint and varnish containing organic solvents or other hazardous substances		
Ī	HP4 Irritant - skin irritation and eye damage		
	HP13 Sensitising		
ı	HP14 Ecotoxic		

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR/RID/ADN	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
·IMDG	ENVIRONMÉNTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN · Class · Label	9 (M6) Miscellaneous dangerous substances and articles. 9
· IMDG, IATA · Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: bis[4-(2,3-epoxypropoxy)phenyl]propane Yes
· Special marking (ADR/RID/ADN): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
	(Contd. on page 8)

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· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, REACTION PRODUCT: BISPHENOL-F-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed.

Seveso category E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 200 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 500 t

REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

- Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a quarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· Relevant phrases H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

· Classification according to

Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using

substance data according to Regulation (EC) No 1272/2008.

Skin corrosion/irritation

Serious eye damage/irritation

Skin sensitisation

Hazardous to the aquatic environment - long-term (chronic)

aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to

Regulation (EC) No 1272/2008.

· Department issuing SDS: Research and Development

Contact: Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijssel-coatings.nl

· Date of previous version: 28.01.2022

· Version number of previous

version:

· Abbreviations and acronyms:

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· * Data compared to the previous version altered.

EU —



Printing date 18.07.2023 Version number 51 (replaces version 50) Revision: 26.06.2023

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

· 1.1 Product identifier

Variobond hardener · Trade name:

· Article number:

· UFI: NTH4-N0D8-M008-H9K5

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

· Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

SU19 Building and construction work

PC9b Fillers, putties, plasters, modelling clay Product category PROC19 Manual activities involving hand contact Process category

ERC5 Use at industrial site leading to inclusion into/onto article · Environmental release category

ERC8c Widespread use leading to inclusion into/onto article (indoor) ERC8f Widespread use leading to inclusion into/onto article (outdoor)

· Article category AC13 Plastic articles

· Application of the substance / the

mixture See our technical datasheet for application details of this product.

Epoxy curing agent

· 1.3 Details of the supplier of the safety data sheet

De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht · Manufacturer/Supplier:

Research and Development.

Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

· Further information obtainable

· 1.4 Emergency telephone

De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl number:

Office hours: working days from 08:00 to 17:00 hrs.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

<!> GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008

· Hazard pictograms

The product is classified and labelled according to the CLP regulation.

GHS05 GHS07

· Signal word Danger

· Hazard-determining components of

Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'labelling:

isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan

m-phenylenebis(methylamine)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Salicylic acid

· Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

Determination of endocrine-disrupting properties

69-72-7 | Salicylic acid | List II; III

* SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 38294-64-3 NLP: 500-101-4 Reg.nr.: 01-2119965165-33	Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'-isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan Skin Corr. 1A, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10 – 25%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	10 – 25%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	3 – 10%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318;	3 – 10%
CAS: 69-72-7 EINECS: 200-712-3 Reg.nr.: 01-2119486984-17	Salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	< 2%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and

delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from

the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away. **6.2 Environmental precautions:**Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,

sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and

explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by

storerooms and receptacles: Store material in original, tightly closed containers in a cool, well-ventilated area in

accordance with applicable (local) regulations. Depending on total volume stored, the

storage area should comply with PGS15.

· Information about storage in one

common storage facility:

Not required.

· Further information about storage

conditions:

Keep container tightly sealed.

· Recommended storage

temperature:

5 - 30 \square

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

 Ingredients with limit values that require monitoring at the

workplace:

The product does not contain any relevant quantities of materials with critical values that

have to be monitored at the workplace.

	mare to be memored at the non-place.		
	· DNEL (Derived No Effect Level) for workers		
Γ	100-51-6 Benzyl alcohol		
Γ	Dermal	Long-term - systemic effects, worker	8 mg/kg bw/day (Worker)
	Inhalative	Long-term - systemic effects, worker	22 mg/m³ (Worker)
	1477-55-0 m-phenylenebis(methylamine)		
Γ	Dermal	Long-term - systemic effects, worker	0.33 mg/kg bw/day (Worker)

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	Long-term - systemic effects, worker 1.	- , ,
	3-aminomethyl-3,5,5-trimethylcyclohe	
1	· ·	073 mg/m³ (Worker)
I		0.1 mg/m³ (Worker)
	alicylic acid	
	Long-term - systemic effects, worker 2.	
Inhalative	Long-term - systemic effects, worker 5	mg/m³ (Worker)
· DNEL (Dei	rived No Effect Level) for the general pop	pulation
100-51-6 E	Benzyl alcohol	
Oral	Long-term - systemic effects, general po	opulation 4 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general po	opulation 4 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general po	opulation 5.4 mg/m³ (General population)
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohe	exylamine
		opulation 0.526 mg/kg bw/day (General population)
69-72-7 Sa	alicylic acid	<u> </u>
Oral	Long-term - systemic effects, general po	opulation 1 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general po	opulation 1 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general po	opulation 4 mg/m³ (General population)
· PNEC (Pre	edicted No Effect Concentration) values	
•	Benzyl alcohol	
Aquatic compartment - freshwater		1 mg/l (Freshwater)
-	mpartment - marine water	0.1 mg/l (Marine water)
-	m-phenylenebis(methylamine)	
	mpartment - freshwater	0.094 mg/l (Freshwater)
-	mpartment - marine water	0.0094 mg/l (Marine water)
-	mpartment - water, intermittent releases	- · · · · · · · · · · · · · · · · · · ·
	mpartment - sediment in freshwater	0.43 mg/kg sed dw (Sediment freshwater)
-	mpartment - sediment in marine water	0.043 mg/kg sed dw (Sediment marine water)
-	compartment - soil	0.045 mg/kg dw (Soil)
	eatment plant	10 mg/l (stp)
	3-aminomethyl-3,5,5-trimethylcyclohe	- , , ,
	mpartment - freshwater	0.06 mg/l (Freshwater)
•	mpartment - marine water	0.006 mg/l (Marine water)
-	mpartment - water, intermittent releases	± ', '
	mpartment - sediment in freshwater	5.784 mg/kg sed dw (Sediment freshwater)
-	mpartment - sediment in marine water	0.578 mg/kg sed dw (Sediment marine water)
•	compartment - soil	1.121 mg/kg dw (Soil)
	eatment plant	3.18 mg/l (stp)
	alicylic acid	
	mpartment - freshwater	0.2 mg/l (Freshwater)
•	mpartment - marine water	0.02 mg/l (Marine water)
		during the making were used as basis.

· 8.2 Exposure controls

- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment

General protective and hygienic

measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

· Hand protection Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/

the preparation.

Due to missing tests no recommendation to the glove material can be given for the

product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

· Material of gloves Nitrile rubber, NBR

> The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: ≥ 0.3 mm

Not applicable.

· Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least

480 minutes (Permeation according to EN 16523-1:2015: Level 6).

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Not suitable are gloves made of

Leather gloves

the following materials:

Strong material gloves

· Eye/face protection

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Physical state Fluid

· Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range 205.4 °C

· Flammability

· Lower and upper explosion limit

· Lower: 1.3 Vol % · Upper: 13 Vol %

· Flash point: 101 °C (Pensky Martens, ASTM D93)

435 °C · Auto-ignition temperature: · Decomposition temperature: Not determined. 9.5

· pH at 20 °C · Viscosity:

· Kinematic viscosity Not determined. Not determined. · Dynamic:

· Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 25 °C: ~ 0 hPa

· Density and/or relative density

 Density at 20 °C: 1.449 g/cm3 (DIN 51757, ASTM D 1298)

· Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

Fluid · Form:

· Important information on protection of health and

environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Organic solvents: 20.1 %

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20.08 %
90.0 %
Not determined.
Void
Void

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions No dangerous reactions known.

10.4 Conditions to avoid
 10.5 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

10.6 Hazardous decomposition

products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

· Compor	nents	Туре	Value	Species		
ATE (A	ATE (Acute Toxicity Estimates)					
Oral	LD50 > 3,113 r	ng/kg				

Oral	LD50 > 3,113 mg/kg					
100-51-	100-51-6 Benzyl alcohol					
Oral	LD50 1,230 mg/kg (Rat)					
Dermal	LD50 2,000 mg/kg (Rabbit)					
1477-55	1477-55-0 m-phenylenebis(methylamine)					
Oral	LD50 1,040 mg/kg (Rat)					
2855-13	2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine					
Oral	LD50 1,030 mg/kg (ATE)					
69-72-7 Salicylic acid						
Oral	LD50 891 mg/kg (Rat)					

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

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· STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. · Aspiration hazard

· 11.2 Information on other hazards

 Endocrine disrupting properties 69-72-7 Salicylic acid List II; III

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· Type of test Effective concentration Method Assessment **ATE (Acute Toxicity Estimates)** Inhalative LC50/4 h 20.8 mg/l

1477-55-0 m-phenylenebis(methylamine)

Inhalative LC50/4 h 2.4 mg/l (Rat)

12.2 Persistence and

degradability No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available.

Harmful to fish

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

12.6 Endocrine disrupting

properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

· Remark:

· Additional ecological information:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water · General notes:

Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue			
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS		
	(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 01 00	wastes from MFSU and removal of paint and varnish		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
HP6	Acute Toxicity		
HP8	Corrosive		
HP13	Sensitising		
HP14	Ecotoxic		

Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA UN2735

· 14.2 UN proper shipping name

· ADR/RID/ADN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-

Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-

epoxypropane, reaction products with 3-aminomethyl-3,5,5-

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· IMDG, IATA	trimethylcyclohexylamine, m-phenylenebis(methylamine)) AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine))
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN · Class · Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according to instruments	IMO Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'- ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5- TRIMETHYLCYCLOHEXYLAMINE, M-

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances -

ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

PHENYLENEBIS(METHYLAMINE)), 8, II

None of the ingredients is listed.

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· REGULATION (EU) 2019/1148 · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

Technical instructions (air):

Class Share in % NK 20.1

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

 Relevant phrases H302 Harmful if swallowed.

> H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Suspected of damaging the unborn child. H361d H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

· Classification according to

Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using

substance data according to Regulation (EC) No 1272/2008.

Skin corrosion/irritation

Serious eve damage/irritation

Skin sensitisation

Hazardous to the aquatic environment - long-term (chronic)

aquatic hazard

· Department issuing SDS: Research and Development

Contact: Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijssel-coatings.nl

· Date of previous version: 28.01.2022

· Version number of previous version:

· Abbreviations and acronyms:

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

Regulation (EC) No 1272/2008.

The classification of the mixture is generally based on the

calculation method using substance data according to

Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

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Repr. 2: Reproductive toxicity – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· * Data compared to the previous version altered.

- EU --