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

· **1.1 Product identifier**

· Trade name: POLY LAK ORTHO

· Article number: 209
· UFI: GYV4-F03V-E00K-HPAJ
· **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
· Process category PROC19 Manual activities involving hand contact
· Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article
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.
Topcoat for polyester products

· **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


GHS02 flame

Flam. Liq. 3	H226	Flammable liquid and vapour.


GHS08 health hazard

Repr. 2	H361d	Suspected of damaging the unborn child.
STOT RE 1	H372	Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.


GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.

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

· **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


GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
styrene
maleic anhydride
cobalt(II) 2-ethylhexanoate
· Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.

(Contd. on page 2)

(Contd. of page 1)

H335 May cause respiratory irritation.
H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

*
SECTION 3: Composition/information on ingredients

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

· Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	25 – 50%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-21195-24678-29	cobalt(II) 2-ethylhexanoate Repr. 1A, H360Fd; Eye Irrit. 2, H319; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	0.1 – 0.5%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	0.1 – 0.5%

· 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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· 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 a doctor.
· After swallowing: If symptoms persist consult doctor.
· **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.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· Suitable extinguishing agents: CO2 or powder. Fight larger fires with alcohol resistant foam.

(Contd. on page 3)

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· For safety reasons unsuitable extinguishing agents: Water with full jet
· **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).
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.
Open and handle receptacle with care.
Prevent formation of aerosols.
· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
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 □
· **7.3 Specific end use(s)** No further relevant information available.

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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.

· DNEL (Derived No Effect Level) for workers		
100-42-5 styrene		
Dermal	Long-term - systemic effects, worker	406 mg/kg bw/day (Worker)
Inhalative	Acute - systemic effects, worker	289 mg/m³ (Worker)
	Acute - local effects, worker	306 mg/m³ (Worker)
	Long-term - systemic effects, worker	85 mg/m³ (Worker)

(Contd. on page 4)

(Contd. of page 3)

136-52-7 cobalt(II) 2-ethylhexanoate		
Inhalative	Long-term - local effects, worker	0.235 mg/m³ (Worker)
108-31-6 maleic anhydride		
Dermal	Acute - systemic effects, worker	0.04 mg/kg bw/day (Worker)
	Acute - local effects,worker	0.04 µg/cm² (Worker)
	Long-term - systemic effects, worker	0.04 mg/kg bw/day (Worker)
	Long term - local effects, worker	0.04 µg/cm² (Worker)
Inhalative	Acute - systemic effects, worker	0.8 mg/m³ (Worker)
	Acute - local effects, worker	0.8 mg/m³ (Worker)
	Long-term - systemic effects, worker	0.4 mg/m³ (Worker)
	Long-term - local effects, worker	0.4 mg/m³ (Worker)

· DNEL (Derived No Effect Level) for the general population

100-42-5 styrene		
Oral	Long-term - systemic effects, general population	2.1 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	343 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	174.25 mg/m³ (General population)
	Acute - local effects, general population	182.75 mg/m³ (General population)
	Long-term - systemic effects, general population	10.2 mg/m³ (General population)
136-52-7 cobalt(II) 2-ethylhexanoate		
Oral	Long-term - systemic effects, general population	0.0558 mg/kg bw/day (General population)
Inhalative	Long-term - local effects, general population	0.037 mg/m³ (General population)

· PNEC (Predicted No Effect Concentration) values

100-42-5 styrene	
Aquatic compartment - freshwater	0.028 mg/l (Sediment freshwater)
Aquatic compartment - marine water	0.0028 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.04 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	0.0614 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.0614 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.2 mg/kg dw (Soil)
Sewage treatment plant	5 mg/l (stp)
136-52-7 cobalt(II) 2-ethylhexanoate	
Aquatic compartment - freshwater	0.00149 mg/l (Freshwater)
Aquatic compartment - marine water	0.0069 mg/l (Marine water) ((Co))
Aquatic compartment - sediment in freshwater	27.8 mg/kg sed dw (Sediment freshwater) ((Co))
Aquatic compartment - sediment in marine water	17.8 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	23.1 mg/kg dw (Soil) ((CoH))
Sewage treatment plant	1.08 mg/l (stp) ((Co))
108-31-6 maleic anhydride	
Aquatic compartment - freshwater	0.04281 mg/l (Freshwater)
Aquatic compartment - marine water	0.004281 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.4281 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	0.334 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.0334 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.0415 mg/kg dw (Soil)

· Additional information: 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.
Store protective clothing separately.
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.

(Contd. on page 5)

(Contd. of page 4)

· 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	Butyl rubber, BR Fluorocarbon rubber (Viton) 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
· 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:	Butyl rubber, BR Fluorocarbon rubber (Viton)
· As protection from splashes gloves made of the following materials are suitable:	Nitrile rubber, NBR
· Not suitable are gloves made of the following materials:	Leather gloves 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	145 °C
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	8.9 Vol %
· Flash point:	31 °C (Pensky Martens, ASTM D93)
· Auto-ignition temperature:	480 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	7
· Viscosity:	
· Kinematic viscosity at 40 °C	2,000 – 2,350 mm²/s
· Dynamic at 20 °C:	2,400 – 2,800 mPas (Brookfield, ASTM D1544)
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	6 hPa
· Density and/or relative density	
· Density at 20 °C:	1.164 g/cm³ (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· **9.2 Other information**	
· Appearance:	
· Form:	Fluid

(Contd. on page 6)

(Contd. of page 5)

· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	28.3 %
· VOC:	
· VOC (2004/42/EC):	28.30 %
· Solids content:	71.6 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	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** No further relevant information available.
· **10.5 Incompatible materials:** 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:

· Components	Type	Value	Species
100-42-5 styrene			
Oral	LD50	5,000 mg/kg	(Rat)
108-31-6 maleic anhydride			
Oral	LD50	400 mg/kg	(Rat)
Dermal	LD50	2,620 mg/kg	(Rabbit)

· Skin corrosion/irritation Causes skin irritation.
· Serious eye damage/irritation Causes serious eye irritation.
· Respiratory or skin sensitisation May cause an allergic skin reaction.
· Germ cell mutagenicity Based on available data, the classification criteria are not met.
· Carcinogenicity Based on available data, the classification criteria are not met.
· Reproductive toxicity Suspected of damaging the unborn child.
· STOT-single exposure May cause respiratory irritation.

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· STOT-repeated exposure Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

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

· **11.2 Information on other hazards**

· Endocrine disrupting properties		
128-37-0	Butylated hydroxytoluene	List II

SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity: No further relevant information available.

· Type of test	Effective concentration	Method	Assessment
100-42-5 styrene			
Oral	EC50	5.1 mg/l (Daphnia magna)	
Inhalative	LC50/4 h	24 mg/l (Rat)	
	LC50/96 h	25 mg/l (Lepomis macrochirus)	
108-31-6 maleic anhydride			
Oral	EC50	84 mg/l (Daphnia magna)	
		29 mg/l (Desmodesmus subspicatus)	
Inhalative	LC50/96 h	138 mg/l (Lepomis macrochirus)	

· **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.

· **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: Harmful to fish

· Additional ecological information:

· General notes: 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.
Harmful to aquatic organisms

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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
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP10	Toxic for reproduction
HP14	Ecotoxic

· Uncleaned packaging:

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

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SECTION 14: Transport information

· **14.1 UN number or ID number**	
· ADR/RID/ADN, IMDG, IATA	UN1263
· **14.2 UN proper shipping name**	
· ADR/RID/ADN	1263 PAINT
· IMDG, IATA	PAINT
· **14.3 Transport hazard class(es)**	
· ADR/RID/ADN	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· **14.4 Packing group**	
· ADR/RID/ADN, IMDG, IATA	III
· **14.5 Environmental hazards:**	
· Marine pollutant:	No
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	In packsize up to 450 liter exempt from ADR according ADR 2.2.3.1.5.
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	In packaging up to 30 litres excempt according to IMDG 2.3.2.5.
· UN "Model Regulation":	UN 1263 PAINT, 3, 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	P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3

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· 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.

· National regulations:

· Technical instructions (air):

Class	Share in %
I	0.1
NK	28.3

· **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

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H360Fd May damage fertility. Suspected of damaging the unborn child.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
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.

Flammable liquids	On basis of test data
Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) 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: 40
· Abbreviations and acronyms:
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

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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
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· Sources: Literature data and/or investigation reports are available through the manufacturer.
· * Data compared to the previous version altered.