Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 04.06.2026 Version number 12 (replaces version 11) Revision: 04.06.2026

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

· **1.1 Product identifier**

· Trade name: **Poly Lak LE-INB-ED**

· Article number: 233
· UFI: AC45-Y0G0-S005-D1F3

· **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.

· **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.


GHS09 environment

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


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.

· **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 GHS09

· Signal word Danger

· Hazard-determining components of labelling: styrene

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hexamethylene diacrylate
methyl methacrylate
decanedioic acid 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester mixt. with 1-methyl 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.
H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
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.
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.

· Additional information:
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

· **2.3 Other hazards**
· Results of PBT and vPvB assessment
· PBT: This product does not contain any substances assessed as PBT at concentrations of 0.1% or higher.
· vPvB: This product does not contain any substances assessed as vPvB at concentrations of 0.1% or higher.
· Determination of endocrine-disrupting properties
Toxicological information (1107/2009 - 3.6.5): The substance/mixture does not contain any components believed to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Ecological information (1107/2009 - 3.8.2): The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

* ***SECTION 3: Composition/information on ingredients***

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

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· 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	3 – 25%
CAS: 13048-33-4 EINECS: 235-921-9 Index number: 607-109-00-8 Reg.nr.: 01-2119484737-22	hexamethylene diacrylate Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10 – 25%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2, H351	0 – 25%
CAS: 80-62-6 EINECS: 237-898-0 Reg.nr.: 01-2119452498-28	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥ 2.797%
CAS: 108-88-3 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	0.1 – 0.5%
CAS: 1065336-91-5	decanedioic acid 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester mixt. with 1-methyl Repr. 2, H361; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≤ 0.1%
CAS: 136-52-7 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-21195-24678-29	cobalt(II) 2-ethylhexanoate Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	≤ 0.1%

· 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.
· 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.

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· Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

* ***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.

* ***SECTION 8: Exposure controls/personal protection***

· **8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:	
80-62-6 methyl methacrylate	
IOELV	Short-term value: 100 ppm Long-term value: 50 ppm

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108-88-3 toluene	
IOELV	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Skin

· 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)
13048-33-4 hexamethylene diacrylate		
Dermal	Long-term - systemic effects, worker	2.77 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	24.48 mg/m³ (Worker)
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		
Inhalative	Long-term - local effects, worker	10 mg/m³ (Worker)
80-62-6 methyl methacrylate		
Dermal	Acute - local effects,worker	1.5 µg/cm² (Worker)
	Long-term - systemic effects, worker	13.67 mg/kg bw/day (Worker)
	Long term - local effects, worker	1.5 µg/cm² (Worker)
Inhalative	Long-term - systemic effects, worker	210 mg/m³ (Worker)
	Long-term - local effects, worker	210 mg/m³ (Worker)
108-88-3 toluene		
Dermal	Long-term - systemic effects, worker	384 mg/kg bw/day (Worker)
Inhalative	Acute - systemic effects, worker	384 mg/m³ (Worker)
	Acute - local effects, worker	384 mg/m³ (Worker)
	Long-term - systemic effects, worker	192 mg/m³ (Worker)
	Long-term - local effects, worker	192 mg/m³ (Worker)
136-52-7 cobalt(II) 2-ethylhexanoate		
Inhalative	Long-term - local effects, worker	0.235 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)
13048-33-4 hexamethylene diacrylate		
Oral	Long-term - systemic effects, general population	2.08 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	1.66 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	7.24 mg/m³ (General population)
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		
Oral	Long-term - systemic effects, general population	700 mg/kg bw/day (General population)
80-62-6 methyl methacrylate		
Oral	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
Dermal	Acute - local effects, general population	1.5 µg/cm² (General population)
	Long-term - systemic effects, general population	8.2 mg/kg bw/day (General population)

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	Long-term - local effects, general population	1.5 µg/cm² (General population)
Inhalative	Long-term - systemic effects, general population	74 mg/m³ (General population)
	Long-term - local effects, general population	105 mg/m³ (General population)
108-88-3 toluene		
Oral	Long-term - systemic effects, general population	8.13 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	226 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	226 mg/m³ (General population)
	Acute - local effects, general population	226 mg/m³ (General population)
	Long-term - systemic effects, general population	56.5 mg/m³ (General population)
	Long-term - local effects, general population	56.5 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)
13048-33-4 hexamethylene diacrylate	
Aquatic compartment - freshwater	0.007 mg/l (Freshwater)
Aquatic compartment - marine water	0.001 mg/l (Marine water)
Aquatic compartment - sediment in freshwater	0.493 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.049 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.094 mg/kg dw (Soil)
Sewage treatment plant	2.7 mg/l (stp)
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	
Aquatic compartment - freshwater	0.127 mg/l (Freshwater)
Aquatic compartment - marine water	1 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.61 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	1,000 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	100 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	100 mg/kg dw (Soil)
Oral secondary poisoning	1,667 mg/kg food (Food sec poisoning)
80-62-6 methyl methacrylate	
Aquatic compartment - freshwater	0.94 mg/l (Freshwater)
Aquatic compartment - marine water	0.094 mg/l (Marine water)
Terrestrial compartment - soil	1.47 mg/kg dw (Soil)
Sewage treatment plant	5.74 mg/l (stp)
108-88-3 toluene	
Aquatic compartment - freshwater	0.68 mg/l (Freshwater)
Aquatic compartment - marine water	0.68 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.68 mg/l (Sediment marine water)

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Aquatic compartment - sediment in freshwater	16.39 mg/kg sed dw (fwd)
Terrestrial compartment - soil	2.89 mg/kg dw (Soil)
Sewage treatment plant	13.61 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))

· 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.
· 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: 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.
· 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.
· 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	Liquid
· 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	107 °C (13048-33-4 hexamethylene diacrylate)
· Flammability	Flammable.

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· Lower and upper explosion limit	
· Lower:	1.2 Vol % (100-42-5 styrene)
· Upper:	8.9 Vol % (100-42-5 styrene)
· Flash point:	31 °C (DIN 51758)
· Decomposition temperature:	Not determined
· pH	Not determined
· Viscosity:	
· Kinematic viscosity at 40 °C	1,987 mm²/s
· Dynamic at 20 °C:	2,264 mPas (Brookfield, ASTM D1544)
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure at 50 °C:	35 hPa (100-42-5 styrene)
· Density and/or relative density	
· Density at 20 °C:	1.139 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 is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	10.7 – < 18.3 %
· VOC:	
· VOC (2004/42/EC):	10.73 – < 18.32 %
· Solids content:	66.4 %
· 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.

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· **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)
13048-33-4 hexamethylene diacrylate			
Oral	LD50	> 5,000 mg/kg	(Rat)
Dermal	LD50	> 3,000 mg/kg	(rab)
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			
Oral	LD50	> 20,000 mg/kg	(Rat)
Dermal	LD50	> 10,000 mg/kg	(rabbit)
80-62-6 methyl methacrylate			
Oral	LD50	7,872 mg/kg	(Rat)
108-88-3 toluene			
Oral	LD50	5,000 mg/kg	(Rat)
Dermal	LD50	12,124 mg/kg	(rabbit)
1065336-91-5 decanedioic acid 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester mixt. with 1-methyl			
Oral	LD50	3,170 mg/kg	(Rat)
136-52-7 cobalt(II) 2-ethylhexanoate			
Oral	LD50	2,000 mg/kg	(Rat)
Dermal	LD50	1,244 mg/kg	(rabbit)

· Primary irritant effect:
· 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 Based on available data, the classification criteria are not met.
· 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		
6846-50-0	2,2,4-trimethyl-1,3-pentanediol diisobutyrate	List II
128-37-0	Butylated hydroxytoluene	List II

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* ***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)	
108-88-3 toluene			
Inhalative	LC50/4 h	5,320 mg/l (mouse)	

· **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: Toxic for 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.
Also poisonous for fish and plankton in water bodies.
Toxic for 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	
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP10	Toxic for reproduction
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 UN1263

· **14.2 UN proper shipping name**
· ADR/RID/ADN 1263 PAINT, ENVIRONMENTALLY HAZARDOUS

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· IMDG	PAINT, MARINE POLLUTANT
· 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:**	Product contains environmentally hazardous substances: hexamethylene diacrylate
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· **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
· 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
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

*
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 P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements	200 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t

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· REGULATION (EC) No 1907/2006
ANNEX XVII Conditions of restriction: 3, 48

· 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		
108-88-3	toluene	3

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
108-88-3	toluene	3

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	18.3

· **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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H361d Suspected of damaging the unborn child.
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· Classification 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 (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.

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· 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: 30.03.2022
· Version number of previous version: 11
· Abbreviations and acronyms:
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
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
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
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
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
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – 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
· Sources: Literature data and/or investigation reports are available through the manufacturer.
· * Data compared to the previous version altered.