Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.03.2019 Version number 8 Revision: 21.03.2019

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

· 1.1 Product identifier

· Trade name: **Perfect Line Epoxy Thinner**

· Article number: PL.9007
· 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)
· Application of the substance / the mixture Thinner, Diluent
· Uses advised against SU21 Consumer uses: Private households / general public / consumers

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
Perfect Line
Postbus 90117
5000 LA Tilburg
T +31(0)857441118
E info@perfectline.nl
W www.perfectline.nl

· Further information obtainable from: Product safety department: info@perfectline.nl
1.4 Emergency telephone number:
National Poisoning Information Centre - Bilthoven - The Netherlands
T +31 (0)30 274 88 88
Restricted to physicians for information on ingredients.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008


GHS02 flame

Flam. Liq. 2	H225	Highly flammable liquid and vapour.


GHS08 health hazard

STOT RE 2	H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.


GHS05 corrosion

Eye Dam. 1	H318	Causes serious eye damage.


GHS07

Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
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.

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· Hazard pictograms

GHS02 GHS05 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
xylene
butanol
ethylbenzene
butanone

· Hazard statements

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
H304	May be fatal if swallowed and enters airways.
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.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
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.

· Additional information:
Restricted to professional users.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

· Dangerous components %(m/m):

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	50-75%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	butanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	10-25%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	10-25%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%

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CAS: 78-93-3 butanone 2.5-10%
EINECS: 201-159-0 Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336
Reg.nr.: 01-2119457290-43

CAS: 108-88-3 toluene ≤0.5%
EINECS: 203-625-9 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;
Reg.nr.: 01-2119471310-51 Skin Irrit. 2, H315; STOT SE 3, H336

· 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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.
Remove contactlenses.
· After swallowing:
Do not induce vomiting; call for medical help immediately.
Rinse mouth.
· 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: CO_2 or powder. Fight larger fights 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.
Carbon monoxide (CO)
· 5.3 Advice for firefighters
· Protective equipment: Wear self-contained 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:
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 item 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.

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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 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 in a cool location.
Store only in the original receptacle.
· Information about storage in one common storage facility: Store away from oxidising agents.
· Further information about storage conditions: Keep container tightly sealed.
· Storage class: 3
· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:

1330-20-7 xylene
IOELV Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

100-41-4 ethylbenzene
IOELV Short-term value: 884 mg/m³, 200 ppm
Long-term value: 442 mg/m³, 100 ppm
Skin

141-78-6 ethyl acetate
IOELV Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

78-93-3 butanone
IOELV Short-term value: 900 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm

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

1330-20-7 xylene

Dermal	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	289 mg/m3 (worker)
	Acute - short-term exposure - local effects	289 mg/m3 (worker)
	Long-term exposure - systemic effects	77 mg/m3 (worker)

78-83-1 butanol

Inhalative	Long-term exposure - local effects	310 mg/m3 (worker)

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100-41-4 ethylbenzene

Dermal	Acute - short-term exposure - local effects	293 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	77 mg/m3 (worker)

141-78-6 ethyl acetate

Dermal	Long-term exposure - systemic effects	63 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	1,468 mg/m3 (worker)
	Acute - short-term exposure - local effects	1,468 mg/m3 (worker)
	Long-term exposure - systemic effects	734 mg/m3 (worker)
	Long-term exposure - local effects	734 mg/m3 (worker)

78-93-3 butanone

Dermal	Long-term exposure - systemic effects	1,161 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	600 mg/m3 (worker)

108-88-3 toluene

Dermal	Long-term exposure - systemic effects	384 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	384 mg/m3 (worker)
	Acute - short-term exposure - local effects	384 mg/m3 (worker)
	Long-term exposure - systemic effects	192 mg/m3 (worker)
	Long-term exposure - local effects	192 mg/m3 (worker)

· PNECs

1330-20-7 xylene

PNEC 12.46 mg/kg (sediment marine water)
PNEC 6.58 mg/l (STP)
0.327 mg/l (aqua, freshwater)
0.327 mg/l (aqua, marine water)

78-83-1 butanol

PNEC 0.152 mg/kg (aqua, marine water)
1.52 mg/kg (sediment freshwater)
0.0699 mg/kg (soil)
PNEC 10 mg/l (STP)
0.4 mg/l (aqua, freshwater)
11 mg/l (aqua, intermittent releases)
0.04 mg/l (aqua, marine water)

100-41-4 ethylbenzene

PNEC 13.7 mg/kg (sediment freshwater)
2.68 mg/kg (soil)
PNEC 9.6 mg/l (STP)
0.1 mg/l (aqua, freshwater)
0.1 mg/l (aqua, intermittent releases)
0.01 mg/l (aqua, marine water)

141-78-6 ethyl acetate

PNEC 0.115 mg/kg (sediment marine water)
1.15 mg/kg (sediment freshwater)
0.148 mg/kg (soil)
PNEC 650 mg/l (STP)
0.24 mg/l (aqua, freshwater)
1.65 mg/l (aqua, intermittent releases)

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0.024 mg/l (aqua, marine water)

78-93-3 butanone
PNEC 284.7 mg/kg (sediment marine water)
284.74 mg/kg (sediment freshwater)
22.5 mg/kg (soil)
PNEC 709 mg/l (STP)
55.8 mg/l (aqua, freshwater)
55.8 mg/l (aqua, intermittent releases)
55.8 mg/l (aqua, marine water)

108-88-3 toluene
PNEC 16.39 mg/kg (sediment marine water)
16.39 mg/kg (sediment freshwater)
2.89 mg/kg (soil)
PNEC 13.61 mg/l (STP)
0.68 mg/l (aqua, freshwater)
0.68 mg/l (aqua, intermittent releases)
0.68 mg/l (aqua, marine water)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
· 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.
Do not inhale gases / fumes / aerosols.
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.
Short term filter device:
Filter A.
· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
Suitable materials for safety gloves (EN 374):
Fluorocarbon rubber gloves (Viton)
· Penetration time of glove material
Thickness of the gloves ≥ 0.7 mm (xylenes)
Value for the permeation ≥ 480 min (xylenes)
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:

Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Fluid
Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	≥77-≤78 °C
· Flash point:	15 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	390 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1 Vol %
Upper:	12 Vol %
· Vapour pressure at 20 °C:	12 hPa
· Density at 20 °C:	0.85 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	1 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	100.00 %
Solids content:	0.0 %
· 9.2 Other information	No further relevant information available.

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 Reacts with strong oxidizing agents.
· 10.4 Conditions to avoid High temperatures.
· 10.5 Incompatible materials: Oxidizing agents

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
· Acute toxicity
Harmful if inhaled.
· LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	12,126 mg/kg bw (rabbit)
Inhalative	LC50/4h	6,700 ppm (rat)

78-83-1 butanol

Oral	LD50	3,350 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4h	24.6 mg/l (rat)

100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
Inhalative	LC50/4h	17.8 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	4,100 mg/kg (mouse)
Dermal	LD50	5,620 mg/kg (rat)
		>20,000 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/l (rat)

78-93-3 butanone

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	20 mg/l (rat)

108-88-3 toluene

Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	28.1 mg/l (rat)

· Primary irritant effect:
· Skin corrosion/irritation
Causes skin irritation.
· Serious eye damage/irritation
Causes serious eye damage.
· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
1330-20-7 Xylenes
IARC Group 3 - Not be classified in terms of carcinogenicity for humans.
· 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 Based on available data, the classification criteria are not met.
· STOT-single exposure
May cause respiratory irritation. May cause drowsiness or dizziness.
· STOT-repeated exposure
May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.
Route of exposure: Inhalation.

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· Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:

1330-20-7 xylene
IC50/72h 2.2 mg/l (algae)
NOEC/72h 0.44 mg/l (algae)
EC50/48h 1 mg/l (daphnia magna)
LC50/96h 2.6 mg/l (oncorhynchus mykiss)

78-83-1 butanol
EC50/48h 1,100 mg/l (daphnia magna)
EC50/72h 1,799 mg/l (algae)
LC50/96h 1,430 mg/l (pimphales promelas)

100-41-4 ethylbenzene
EC50/24h >100 mg/l (daphnia magna)

141-78-6 ethyl acetate
NOEC/32d >9.65 mg/l (fish)
NOEC/21d 2.4 mg/l (daphnia magna)
EC50/48h 5,600 mg/l (algae)
610 mg/l (daphnia magna)
LC50/96h 230 mg/l (fish)

78-93-3 butanone
EC50/48h >5,000 mg/l (daphnia magna)
LC50/96h >2,500 mg/l (pimphales promelas)

108-88-3 toluene
NOEC/72h 10 mg/l (Skeletonema costatum)
EC50/3h 134 mg/l (Chlorella vulgaris)
NOEC/7d 0.74 mg/l (Ceriodaphnia dubia)
LOEC/7d 2.76 mg/l (Ceriodaphnia dubia)
NOEC/40d 1.39 mg/l (Oncorhynchus kisutch)
LOEC/40d 2.77 mg/l (Oncorhynchus kisutch)
EC50/48h 3.78 mg/l (daphnia magna)
EC50/7d 3.23 mg/l (Ceriodaphnia dubia)
LC50/96h 5.5 mg/l (Oncorhynchus kisutch)
· 12.2 Persistence and degradability No further relevant information available.
· Degree of elimination:

141-78-6 ethyl acetate
OESO 303A >99.9 % (/) (OESO 303A)
(readily biodegradable)
· 12.3 Bioaccumulative potential

1330-20-7 xylene
BCF 25.9 (/)
LogPow 3.15 (/)

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141-78-6 ethyl acetate
BCF 30 (leuciscus idus)

108-88-3 toluene
BCF 90 (/)
LogPow 2.73 (/)

· 12.4 Mobility in soil

141-78-6 ethyl acetate
Koc 1.43 (/)

· Other information:

141-78-6 ethyl acetate
BOD5/20d 79 (/)

· Ecotoxical 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.
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
· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
· 12.6 Other adverse effects No further relevant information available.

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
07 01 04* other organic solvents, washing liquids and mother liquors

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

SECTION 14: Transport information

· 14.1 UN-Number
· ADR/ADN, IMDG, IATA UN1263
· 14.2 UN proper shipping name
· ADR/ADN 1263 PAINT RELATED MATERIAL
· IMDG, IATA PAINT RELATED MATERIAL
· 14.3 Transport hazard class(es)

· ADR/ADN, IMDG, IATA

· Class 3 Flammable liquids.
· Label 3
· 14.4 Packing group
· ADR/ADN, IMDG, IATA II

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· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E,S-E
· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

· Transport/Additional information:

· ADR/ADN	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E

· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II

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

· National regulations:

· Other regulations, limitations and prohibitive regulations
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
· 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.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.

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H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Product safety department.
· Contact: Ing. R. Derks
· 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 européen sur le transport 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
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 Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3