

18.07.2023

Kit components

Product code	Description
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280	Poltix Smitplamuur A+B
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Components:

280-00000	POLTIX SPRAYFILLER
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295	Poltix Smitplamuur CHP peroxide
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: **POLTIX SPRAYFILLER**
- Article number: **280-00000**
- UFI: **YKCO-W0KT-N00F-YHK2**
- **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 **PC9b Fillers, putties, plasters, modelling clay**
- Process category **PROC19 Manual activities involving hand contact**
PROC7 Industrial spraying
PROC11 Non industrial spraying
- 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)
AC13 Plastic articles
- Article category
- Application of the substance / the mixture **See our technical datasheet for application details of this product.**
Filler and surfacer


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. 2 H225 Highly 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.

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

- Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to the hearing organs through prolonged or repeated exposure.
Route of exposure: Inhalation.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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- 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	10 – 25%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.500%

- 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: 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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Trade name: POLTIX SPRAYFILLER

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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 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 in a cool location.
 - 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.
 - Store in cool, dry conditions in well sealed receptacles.
 - Recommended storage temperature:
 - 5 - 30 °C
 - **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:		
141-78-6 ethyl acetate		
IOELV	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm	
· 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/m ³ (Worker)
	Acute - local effects, worker	306 mg/m ³ (Worker)
	Long-term - systemic effects, worker	85 mg/m ³ (Worker)
141-78-6 ethyl acetate		
Dermal	Long-term - systemic effects, worker	63 mg/kg bw/day (Worker)
Inhalative	Acute - systemic effects, worker	1,468 mg/m ³ (Worker)
	Acute - local effects, worker	1,468 mg/m ³ (Worker)
	Long-term - systemic effects, worker	34 mg/m ³ (Worker)

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	Long-term - local effects, worker	734 mg/m ³ (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/m ³ (General population)
	Acute - local effects, general population	182.75 mg/m ³ (General population)
	Long-term - systemic effects, general population	10.2 mg/m ³ (General population)
141-78-6 ethyl acetate		
Oral	Long-term - systemic effects, general population	4.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	37 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	734 mg/m ³ (General population)
	Acute - local effects, general population	734 mg/m ³ (General population)
	Long-term - systemic effects, general population	367 mg/m ³ (General population)
	Long-term - local effects, general population	367 mg/m ³ (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)
141-78-6 ethyl acetate		
Aquatic compartment - freshwater		0.26 mg/l (Freshwater)
Aquatic compartment - marine water		0.026 mg/l (Marine water)
Aquatic compartment - sediment in freshwater		0.34 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.034 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.22 mg/kg dw (Soil)
Sewage treatment plant		650 mg/l (stp)

· 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

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

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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:
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: Grey
- Odour: Characteristic
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 145.2 °C
- Flammability Highly flammable.
- Lower and upper explosion limit
- Lower: 1.2 Vol %
- Upper: 8.9 Vol %
- Flash point: 16 °C (Pensky Martens, ASTM D93)
- Auto-ignition temperature: 480 °C
- Decomposition temperature: Not determined.
- pH at 20 °C 7
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic at 20 °C: 11,000 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: 1.5 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: 20.0 %
- VOC:
- VOC (2004/42/EC): 20.00 %
- Solids content: 80.0 %
- Change in condition
- Evaporation rate Not determined.

- Information with regard to physical hazard classes
- Explosives Void
- Flammable gases Void
- Aerosols Void

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· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly 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)	
141-78-6 ethyl acetate			
Oral	LD50	5,620 mg/kg (Rabbit)	
· Skin corrosion/irritation	Causes skin irritation.		
· Serious eye damage/irritation	Causes serious eye irritation.		
· Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.		
· 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	None of the ingredients is listed.		

*** 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)	

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Inhalative	LC50/4 h	24 mg/l (Rat)
	LC50/96 h	25 mg/l (Lepomis macrochirus)
141-78-6 ethyl acetate		
Inhalative	LC50/4 h	1,600 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.
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- 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.

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

- 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 · IMDG, IATA	1263 PAINT PAINT
· 14.3 Transport hazard class(es) · ADR/RID/ADN · Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA · Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Flammable liquids. - F-E,S-E

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	5L
· Limited quantities (LQ)	Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	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 exempt 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

· 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 %
NK	20.0

· **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.

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- Relevant phrases
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - 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.
 - H372 Causes damage to organs through prolonged or repeated exposure.
 - H412 Harmful to aquatic life with long lasting effects.
 - EUH066 Repeated exposure may cause skin dryness or cracking.

- 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 Reproductive toxicity Specific target organ toxicity (repeated exposure)	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:
- Contact:
- Date of previous version:
- Version number of previous version:
- Abbreviations and acronyms:

Research and Development

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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

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

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

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

- Sources:
- * Data compared to the previous version altered.

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

1.1 Product identifier

Trade name: **Poltix S spuitplamuur CHP peroxide**

Article number: 295

UFI: 53V4-D06W-C00N-W8GW

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 PC9b Fillers, putties, plasters, modelling clay

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.

Catalyst

Curing agent/ cross-linker/ Vulcanising agent

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. 2 H225 Highly flammable liquid and vapour.

Self-react. D H242 Heating may cause a fire.

Org. Perox. D H242 Heating may cause a fire.

 GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

 GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

 GHS07

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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 GHS05 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling: cyclohexanone peroxide, mixture
 4-hydroxy-4-methylpentan-2-one
 ethyl acetate

Hazard statements H225 Highly flammable liquid and vapour.
 H242 Heating may cause a fire.
 H242 Heating may cause a fire.

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<ul style="list-style-type: none"> · Precautionary statements · Additional information: · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: · vPvB: 	<p>H314 Causes severe skin burns and eye damage. H361d Suspected of damaging the unborn child. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. P310 Immediately call a POISON CENTER/doctor. P405 Store locked up. P410 Protect from sunlight. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>EUH066 Repeated exposure may cause skin dryness or cracking.</p> <p>Not applicable. Not applicable.</p>
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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

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

· Dangerous components:

CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	50 – 100%
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1	4-hydroxy-4-methylpentan-2-one ☠ Flam. Liq. 3, H226; ☠ Repr. 2, H361d; ☠ Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	10 – 25%
CAS: 12262-58-7 EINECS: 235-527-7 Index number: 617-010-00-1	cyclohexanone peroxide, mixture ☠ Org. Perox. A, H240; ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; C ≥ 5 %	10 – 25%

· 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: 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.

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.

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- **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 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.
 - 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.
 - Prevent impact and friction.
 - 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 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.
 - Do not seal receptacle gas tight.
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
- Recommended storage temperature:
 - 5 - 30 °C
- **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:		
141-78-6 ethyl acetate		
IOELV	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm	
· DNEL (Derived No Effect Level) for workers		
141-78-6 ethyl acetate		
Dermal	Long-term - systemic effects, worker	63 mg/kg bw/day (Worker)
Inhalative	Acute - systemic effects, worker	1,468 mg/m ³ (Worker)
	Acute - local effects, worker	1,468 mg/m ³ (Worker)
	Long-term - systemic effects, worker	34 mg/m ³ (Worker)

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	Long-term - local effects, worker	734 mg/m ³ (Worker)
123-42-2 4-hydroxy-4-methylpentan-2-one		
Dermal	Long-term - systemic effects, worker	840 mg/kg bw/day (Worker)
Inhalative	Acute - local effects, worker	240 mg/m ³ (Worker)
	Long-term - systemic effects, worker	59.2 mg/m ³ (Worker)
· DNEL (Derived No Effect Level) for the general population		
141-78-6 ethyl acetate		
Oral	Long-term - systemic effects, general population	4.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	37 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects, general population	734 mg/m ³ (General population)
	Acute - local effects, general population	734 mg/m ³ (General population)
	Long-term - systemic effects, general population	367 mg/m ³ (General population)
	Long-term - local effects, general population	367 mg/m ³ (General population)
123-42-2 4-hydroxy-4-methylpentan-2-one		
Oral	Long-term - systemic effects, general population	3 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	60 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	10.4 mg/m ³ (General population)
· PNEC (Predicted No Effect Concentration) values		
141-78-6 ethyl acetate		
Aquatic compartment - freshwater		0.26 mg/l (Freshwater)
Aquatic compartment - marine water		0.026 mg/l (Marine water)
Aquatic compartment - sediment in freshwater		0.34 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.034 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.22 mg/kg dw (Soil)
Sewage treatment plant		650 mg/l (stp)
123-42-2 4-hydroxy-4-methylpentan-2-one		
Aquatic compartment - freshwater		2 mg/l (swa)
Aquatic compartment - marine water		0.2 mg/l (Marine water)
Aquatic compartment - sediment in freshwater		9.06 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water		0.91 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		0.63 mg/kg dw (Soil)
Sewage treatment plant		10 mg/l (stp)

· 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.
 - 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: Butyl rubber, BR
Fluorocarbon rubber (Viton)
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.

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- Penetration time of glove material Recommended thickness of the material: ≥ 0.3 mm
 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)
 Nitrile rubber, NBR
- 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:	Colourless
· Odour:	Like aldehyde
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	77 °C
· Flammability	May cause fire. Highly flammable.
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	11.5 Vol %
· Flash point:	-4 °C (DIN 51758)
· Auto-ignition temperature:	310 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	6
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	97 hPa
· Density and/or relative density	
· Density at 20 °C:	1 g/cm ³ (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:	Risk of explosion by shock, friction, fire or other sources of ignition. May cause fire.
· Solvent content:	
· Organic solvents:	55.0 %
· VOC:	
· VOC (2004/42/EC):	55.00 %
· Solids content:	10.0 %
· Change in condition	
· Evaporation rate	Not determined.

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· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Heating may cause a fire.
· 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	Heating may cause a fire.
· 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
ATE (Acute Toxicity Estimates)	
Oral	LD50 2,500 mg/kg
141-78-6 ethyl acetate	
Oral	LD50 5,620 mg/kg (Rabbit)
123-42-2 4-hydroxy-4-methylpentan-2-one	
Oral	LD50 4,000 mg/kg (Rat)
Dermal	LD50 13,630 mg/kg (rab)
· Skin corrosion/irritation	Causes severe skin burns and eye damage.
· Serious eye damage/irritation	Causes serious eye damage.
· Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
· 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. May cause drowsiness or dizziness.
· STOT-repeated exposure	Based on available data, the classification criteria are not met.
· Aspiration hazard	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.	

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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 |
|-------------------------------|-------------------------|------------------|------------|
| 141-78-6 ethyl acetate | | | |
| Inhalative | LC50/4 h | 1,600 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.
 - **12.5 Results of PBT and vPvB assessment**
 - PBT: Not applicable.
 - vPvB: Not applicable.
 - **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
 - **12.7 Other adverse effects**
 - Additional ecological information:
 - General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.

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 |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP8 | Corrosive |
| HP10 | Toxic for reproduction |
- 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	UN3105
· 14.2 UN proper shipping name	
· ADR/RID/ADN	3105 ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone peroxide, mixture)
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone peroxide, mixture)
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2
· IMDG, IATA	
· Class	5.2 Organic peroxides.
· Label	5.2
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No

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<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code · Segregation Code 	<p>Warning: Organic peroxides. 539 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.</p>
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
· Transport/Additional information:	
<ul style="list-style-type: none"> · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	<p>125 ml Code: E0 Not permitted as Excepted Quantity 2 D/E</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>125 ml Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (CYCLOHEXANONE PEROXIDE, MIXTURE), 5.2, 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
P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
- Qualifying quantity (tonnes) for the application of lower-tier requirements
50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements
200 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.

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	55.0

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**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.
 - H240 Heating may cause an explosion.
 - H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.
 - H412 Harmful to aquatic life with long lasting effects.
 - EUH066 Repeated exposure may cause skin dryness or cracking.

- 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 Self-reactive substances and mixtures Organic peroxides	On basis of test data
Skin corrosion/irritation Serious eye damage/irritation Reproductive toxicity Specific target organ toxicity (single exposure)	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:
- Contact:
- Date of previous version:
- Version number of previous version:
- Abbreviations and acronyms:

Research and Development

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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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Self-react. D: Self-reactive substances and mixtures – Type C/D

Org. Perox. A: Organic peroxides – Type A

Org. Perox. D: Organic peroxides – Type C/D

Acute Tox. 4: Acute toxicity – Category 4

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

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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.