



MPK Nails GmbH
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INCI

Product: Quick Finish Wipe Milky Rose
Application: The product is used for the care and beautification and/or decoration of nails

Quantitative and qualitative composition

Ingredient	INCI name	Max. %	Numer CAS	EINECS
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	PEG-4 Trimethylolpropane Triacrylate	25-50	28961-43-5	-
Pentaerythritol tetrakis(3-mercaptopropionate)	Pentaerythrityl Tetramercaptopropionate	25-50	7575-23-7	231-472-8
Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer	Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer	25-50	-	-
Aliphatic Urethane Methacrylate	Aliphatic Urethane Methacrylate	10-25	-	-
Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer	Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer	10-25	-	-
2,2-bis(((1-oxoallyl)oxy)methyl)-1,3-propanediyl diacrylate	Pentaerythrityl Tetraacrylate	10-25	1245638-61-2/ 4986-89-4	225-644-1
2-Propenoic acid, reaction products with pentaerythritol	Pentaerythrityl Triacrylate	10-25	1245638-61-2	629-850-6
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Ethyl Trimethylbenzoyl Phenylphosphinate	1-5	84434-11-7	282-810-6
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)	Bis(T-Butyl Benzoxazolyl) Thiophene	0-0.1	7128-64-5	230-426-4
Tripropylene Glycol Diacrylate	Tripropylene Glycol Diacrylate	0-0.1	42978-66-5	-
Butanone	MEK	0.1-1	78-93-3	-
Titanium Dioxide	CI 77891	0.1-1	13463-67-7	236-675-5
Diiron trioxide	CI 77491	0.1-1	1309-37-1	215-168-2
1-[(2-Chloro-4-nitrophenyl)azo]-2-naphthol and its insoluble barium,	CI 12085	0.1-1	2814-77-9	220-562-2

strontium and zirconium lakes, salts and pigments				
Disodium 3-hydroxy-4-[(4-methyl- 2-sulphonatophenyl)azo]-2- naphthoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	CI 15850	0.1-1	5858-81-1	227-497-9
1-Hydroxy-4-(p- toluidino)anthraquinone	CI 60725	0.01- 0.1	81-48-1	201-353-5

Ingredients: PEG-4 Trimethylolpropane Triacrylate, Pentaerythrityl Tetramercaptopropionate, Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer, Aliphatic Urethane Methacrylate, Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer, Pentaerythrityl Tetraacrylate, Pentaerythrityl Triacrylate, Ethyl Trimethylbenzoyl Phenylphosphinate, Bis(T-Butyl Benzoxazoly) Thiophene, Tripropylene Glycol Diacrylate, MEK, CI 77891, CI 77491, CI 12085, CI 15850, CI 60725

INCI

Nazwa produktu: Quick Finish Wipe Milky White
Charakterystyka produktu: The product is used for the care and beautification and/or decoration of nails

Quick Finish Wipe Milky White

Nazwa składnika	Nazwa wg INCI	Numer CAS	EINECS
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	PEG-4 Trimethylolpropane Triacrylate	28961-43-5	-
Pentaerythritol tetrakis(3-mercaptopropionate)	Pentaerythrityl Tetramercaptopropionate	7575-23-7	231-472-8
Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer	Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer	-	-
Aliphatic Urethane Methacrylate	Aliphatic Urethane Methacrylate	-	-
Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer	Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer	-	-
2,2-bis[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	Pentaerythrityl Tetraacrylate	1245638-61-2 / 4986-89-4	225-644-1
2-Propenoic acid, reaction products with pentaerythritol	Pentaerythrityl Triacrylate	1245638-61-2	629-850-6
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Ethyl Trimethylbenzoyl Phenylphosphinate	84434-11-7	282-810-6
2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)	Bis(T-Butyl Benzoxazolyl) Thiophene	7128-64-5	230-426-4
Tripropylene Glycol Diacrylate	Tripropylene Glycol Diacrylate	42978-66-5	-
Butanon	MEK	78-93-3	-
Titanium Dioxide	CI 77891	13463-67-7	236-675-5
Czerwony tlenek żelaza	CI 77491	1309-37-1	215-168-2
1-[(2-Chloro-4-nitrophenyl)azo]-2-naphthol and its insoluble barium,	CI 12085	2814-77-9	220-562-2

strontium and zirconium lakes, salts and pigments			
Disodium 3-hydroxy-4-[(4-methyl- 2-sulphonatophenyl)azo]-2- naphthoate and its insoluble barium, strontium and zirconium lakes, salts and pigments	CI 15850	5858-81-1	227-497-9
1-Hydroxy-4-(p- toluidino)anthraquinone	CI 60725	81-48-1	201-353-5

Ingredients: PEG-4 Trimethylolpropane Triacrylate, Pentaerythrityl Tetramercaptopropionate, Hydroxyethyl Acrylate/IPDI/PPG-15 Glyceryl Ether Copolymer, Aliphatic Urethane Methacrylate, Bis(Pentaerythrityl Triacrylate) Pentaerythrityl Diacrylate/IPDI Copolymer, Pentaerythrityl Tetraacrylate, Pentaerythrityl Triacrylate, Ethyl Trimethylbenzoyl Phenylphosphinate, Bis(T-Butyl Benzoxazolyl) Thiophene, Tripropylene Glycol Diacrylate, MEK, CI 77891, CI 77491, CI 12085, CI 15850, CI 60725

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Quick Finish Wipe Milky White / Milky Rose / Milky Nude

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

Recommended use: UV/LED nail polish. For professional user only.

Uses advised against: Any use not listed above and in 7.3

1.3 Details of the supplier of the safety data sheet

Company: MPK Nails GmbH
An der Brücke 1
95679 Waldershof
Deutschland
Telephone: 09231 - 9739630
E-mail: info@mpknails.de

1.1 Emergency telephone number

Emergency telephone number: 09231 - 9739630 (Mo - Do 8-13 Uhr)

2. Hazards identification

2.1 Classification of the substance or mixture

This Regulation shall not apply to substances or mixtures in the following forms, in their finished state and intended for the final user: cosmetic products as defined in REGULATION No 1223/2009

Regulation No 1272/2008 (CLP):

The classification of this product has been made in accordance with Regulation No 1272/2008 (CLP).

Acute Tox. 4: Harmful if swallowed, H302

Aquatic Acute1: Very toxic to aquatic life, H400

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects, H410

Eye Irrit. 2: Causes serious eye irritation, H319

Skin Sens. 1A: May cause an allergic skin reaction, H317

2.2 Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]



Hazard pictograms:

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Signal word: WARNING

Hazard statements:

H302 Harmful if swallowed
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+352 IF ON SKIN: Wash with plenty of water
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P330 Rinse mouth.
 P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplementary information:

Contains: Ethyl phenyl(2,4,6 trimethylbenzoyl)phosphinate, 2 propenoic acid, reaction products with pentaerythritol, Pentaerythritol tetrakis (3-mercaptopropionate), Propyldinetrimehanol ethoxylated, ester with acrylic acid.

2.3 Other hazards

The mixture does not meet the criteria for PBT and vPvB.
 Does not contain endocrine disruptors.

3. Composition/information on ingredients

Name	%	INDEX	CAS	EC	Regulation(EC) No.1272/2008[CLP]		Registration number
					Hazard class	Phrase H	

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

Propidinetrimethanol, ethoxylated, ester with acrylic acid	25- <50	-	28961 -43-5	500- 066-5	Eye Irrit. 2, Skin Sens. 1	H319 H317	01- 2119489900- 30- XXXX
Pentaerythritol tetrakis (3-mercaptopropionate)	2,5- <10	-	7575- 23-7	231- 472-8	Acute Tox. 4 Aquatic Acute 1, Aquatic Chronic 1, Skin Sens. 1A	H302 H400 H410 H317	01- 2119486981- 23- XXXX
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	2,5- <10	-	84434 -11-7	282- 810-6	Aquatic Chronic 2, Skin Sens 1B	H411 H317	01- 2119987994- 10- XXXX
2-Propenoic acid, reaction products with pentaerythritol	1- <2,5	-	12456 38- 61-2	-	Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Skin Irrit. 2 Skin Sens. 1	H302 H411 H318 H315 H317	01- 2119490003- 49- XXXX
Acrylic acid	<1	607- 061- 00-8	79- 10-7	201- 177-9	Acute Tox. 4 Aquatic Acute 1 Flam. Liq. 3 Skin Corr. 1A	H302+H31 2+H332 H400 H226 H314	01- 2119452449- 31- XXXX
Butanone	<1	606- 002- 00-3	78- 93-3	201- 159-0	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3 EUH066	H319 H225 H336	01- 2119457290- 43- XXXX

See sections 11, 12 and 16 for further information on the hazards of the substances

4. First aid measures

4.1 Description of first aid measures

Symptoms as a result of poisoning may occur only after exposure, therefore in case of doubt, direct exposure to a chemical product or prolonged unwellness, consult a doctor and show him the Safety Data Sheet.

Inhalation: The product is not classified as dangerous if inhaled, but nevertheless, if symptoms of poisoning are observed, it is recommended to remove the affected person from the place of exposure and provide fresh air and calmness. If symptoms persist symptoms persist, seek medical attention.

Skin contact: In case of skin lesions (burning pain, redness, rash, blisters), consult a doctor with the Safety Data Sheet of the product.

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Eye contact:	Rinse eyes abundantly with water at room temperature for 15 minutes. If the victim is wearing contact lenses, remove them if they are not stuck to the eye, otherwise further injury may result. In all cases, after washing the affected person, consult a doctor as soon as possible and show him the Safety Data Sheet.
Ingestion:	Call a doctor immediately and show him the Safety Data Sheet. Do not induce vomiting. If vomiting occurs, keep head tilted forward to prevent aspiration of stomach contents. In case of unconsciousness do not give anything by mouth until medical advice has been sought. Rinse mouth and throat, as they are likely to have been contaminated by ingestion. Ensure that the victim remains calm.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects of exposure are given in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product containing flammable substances, non-flammable under normal conditions of handling, storage and use. In case of ignition due to improper handling, storage or use, preferably use powder extinguishers (ABC powder) in accordance with the Regulation on fire protection equipment.

Unsuitable extinguishing media

It is NOT RECOMMENDED to use running water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture

Combustion or thermal decomposition produces reaction sub-products that can be highly toxic and consequently may pose serious health hazards.

5.3 Advice for firefighters

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Depending on the size of the fire, complete protective clothing and self-contained breathing equipment may be necessary. Have available a minimum set of emergency equipment and means of action (fire blankets, first aid kit) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and information leaflets describing how to deal with accidents and other emergency situations. Dispose of all ignition sources. In the event of fire, cool vessels and tanks used for storage of products susceptible to ignition, explosion or BLEVE explosion due to high temperatures. Do not allow products used to extinguish the fire to enter the water tank.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Secure the release of the product unless the activity poses a risk to those involved. Evacuate the area and remove persons not wearing the proper protective equipment. In case of possible contact with spilled product, it is obligatory to use personal protective equipment (see section 8). The formation of flammable air/vapour mixtures must be prevented in the first place, both by ventilation and the use of an inerting agent. Inactivate all ignition sources. Eliminate static electricity by ensuring that all conductive surfaces on which static electricity can arise are earthed and interconnected.

For emergency responders:

See section 8

6.2 Environmental precautions

The product is classified as dangerous for the environment. Do not allow to contaminate ground water, surface water, watercourses, soil and sewage system. Store absorbed product in tightly closed containers. Notify the relevant authorities in case of exposure of the general public or the environment.

6.3 Methods and material for containment and cleaning up

Recommended:

Absorb the spillage with sand or a neutral absorbent and move it to a safe place. Do not use sawdust or other flammable absorbents for absorption. See Section 13 for any notes on product disposal.

6.4 Reference to other sections

Precautions and personal protection - sections 7 and 8

Removal - section 13

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

7. Handling and storage

7.1 Precautions for safe handling

A.- Precautions necessary for safe handling

As regards the prevention of occupational hazards, proceed in accordance with applicable law. Keep containers tightly closed. Control spills and waste, disposing of them by safe methods (section 6).

B.- Technical advice on fire and explosion prevention.

Do not allow evaporation of the product as it contains flammable substances whose vapours may form flammable mixtures with air in the presence of ignition sources. Control ignition sources (mobile phones, sparks) and pour the product slowly so as not to create static charges. See Section 10 for conditions and substances to avoid.

C.- Technical recommendations against toxicological hazards.

Do not eat or drink while handling the product, wash hands with a suitable cleaning agent after handling.

D.- Technical recommendations to prevent environmental risks.

Due to the risk this product poses to the environment, it is advisable to handle it in a place that has pollution control sensors in case of spillage and to keep absorbent material nearby.

7.2 Conditions for safe storage, including any incompatibilities

A.- Technical aspects of storage.

Min. temp.: 5°C

Max. temp.: 30°C

Max. time.: 6 months

B.- General storage conditions.

Avoid heat, radiation and electrostatic sources. Keep away from foodstuffs. For further information see section 10.5.

7.3 Specific end use(s)

See section 12.

8. Exposure controls/personal protection

8.1 Occupational exposure limits

Occupational exposure limits should be controlled for the following substances:

OJ. 2018 item 1286:

Identification	Limit values for environmental quality standards		
Acrylic acid CAS: 79-10-7 EC: 201-177-9	TLV		10 mg/m ³
	STEL		29,5 mg/m ³
Butanone CAS: 78-93-3 EC: 201-159-0	TLV		450 mg/m ³
	STEL		900 mg/m ³

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

DNEL (workers):

Identification		Short-term exposure		Long-term exposure	
		Systematic	Locally	Systematic	Locally
Propidinetrimethanol, ethoxylated, ester with acrylic acid CAS: 28961-43-5 EC: 500-066-5	Orally	No data	No data	No data	No data
	Dermal	No data	No data	0,8 mg/kg	No data
	Inhalation	No data	No data	16,2 mg/m ³	No data
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	Orally	No data	No data	No data	No data
	Dermal	No data	No data	5 mg/kg	No data
	Inhalation	No data	40,13 mg/m ³	1,74 mg/m ³	40,13 mg/m ³
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	Orally	No data	No data	No data	No data
	Dermal	No data	No data	1,4 mg/kg	No data
	Inhalation	No data	No data	4,93 mg/m ³	No data
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	Orally	No data	No data	No data	No data
	Dermal	No data	No data	No data	No data
	Inhalation	30 mg/m ³	30 mg/m ³	30 mg/m ³	30 mg/m ³
Butanone CAS: 78-93-3 EC: 201-159-0	Orally	No data	No data	No data	No data
	Dermal	No data	No data	1161 mg/kg	No data
	Inhalation	No data	No data	600 mg/m ³	No data

DNEL (Population):

Identification		Short-term exposure		Long-term exposure	
		Systematic	Locally	Systematic	Locally
Propidinetrimethanol, ethoxylated, ester with acrylic acid CAS: 28961-43-5 EC: 500-066-5	Orally	No data	No data	1,4 mg/kg	No data
	Dermal	No data	No data	0,5 mg/kg	No data
	Inhalation	No data	No data	4,9 mg/m ³	No data
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	Orally	No data	No data	0,25 mg/kg	No data
	Dermal	No data	No data	2,5 mg/kg	No data
	Inhalation	No data	20,07 mg/m ³	0,43 mg/m ³	20,07 mg/m ³
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	Orally	No data	No data	0,5 mg/kg	No data
	Dermal	No data	No data	0,5 mg/kg	No data
	Inhalation	No data	No data	0,87 mg/m ³	No data
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	Orally	No data	No data	No data	No data
	Dermal	No data	No data	No data	No data
	Inhalation	3,6 mg/m ³	3,6 mg/m ³	3,6 mg/m ³	3,6 mg/m ³
Butanone	Orally	No data	No data	31 mg/kg	No data

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CAS: 78-93-3 EC: 201-159-0	Dermal	No data	No data	412 mg/kg	No data
	Inhalation	No data	No data	106 mg/m ³	No data

PNEC:

Identification				
Propidinetrimethanol, ethoxylated, ester with acrylic acid CAS: 28961-43-5 EC: 500-066-5	Sewage treatment plant	10 mg/L	Freshwater	0,002 mg/L
	Soils	0,006 mg/kg	Seawater	0 mg/L
	Sporadically	0,019 mg/L	Sediment (freshwater)	0,008 mg/kg
	Orally	0,0056 g/kg	Sediment (seawater)	0,001 mg/kg
Pentaerythritol tetrakis (3- mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	Sewage treatment plant	2,39 mg/L	Freshwater	0,00003 mg/L
	Soils	0,000184 mg/kg	Seawater	0,0000034 mg/L
	Sporadically	0 00034 mg/L	Sediment (freshwater)	0,00102 mg/kg
	Orally	No data	Sediment (seawater)	0,000102 mg/kg
Ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	Sewage treatment plant	No data	Freshwater	0,00101 mg/L
	Soils	0,0475 mg/kg	Seawater	0,000101 mg/L
	Sporadically	0,0101 mg/L	Sediment (freshwater)	0,24 mg/kg
	Orally	No data	Sediment (seawater)	0,024 mg/kg
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	Sewage treatment plant	10 mg/L	Freshwater	0,003 mg/L
	Soils	0,34 mg/kg	Seawater	0 mg/L
	Sporadically	0,032 mg/L	Sediment (freshwater)	1,73 mg/kg
	Orally	No data	Sediment (seawater)	0,173 mg/kg
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	Sewage treatment plant	0,9 mg/L	Freshwater	0,003 mg/L
	Soils	1 mg/kg	Seawater	0 mg/L
	Sporadically	0,001 mg/L	Sediment (freshwater)	0,024 mg/kg
	Orally	0,03 g/kg	Sediment (seawater)	0,002 mg/kg
Butanone	Sewage treatment plant	709 mg/L	Freshwater	55,8 mg/L

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Conforms to Regulation (EC) No. 1907/2006 (REACH)



CAS: 78-93-3 EC: 201-159-0	Soils	22,5 mg/kg	Seawater	55,8 mg/L
	Sporadically	55,8 mg/L	Sediment (freshwater)	284,74 mg/kg
	Orally	1 g/kg	Sediment (seawater)	284,7 mg/kg

8.2 Exposure controls



A.- Individual protection measures such as personal protective equipment

As a preventive measure, the use of protective clothing marked with the "CE marking" is recommended. More information on protective clothing (storage, use, cleaning, maintenance, protection class...) can be obtained from the information brochure provided by the protective clothing manufacturer. The instructions contained herein refer to the pure product. The directions for the diluted product may vary, depending on the degree of dilution, application, method of application, etc. In determining the obligation to install emergency showers and/or eyewash facilities in warehouses, the regulations for the storage of chemical products will be taken into account. For more information, see Sections 7.1 and 7.2.

All information contained in this section - in the absence of information on protective equipment held by the company - should be regarded as a recommendation to prevent the emergence of a hazard when working with the product. B.-Respiratory protection

Pictogram	Protective equipment	Marking	CEN standards	Notes
 Mandatory respiration protection	Filter mask for protection against gases and vapours.		EN 405:2002+A1:2010	If there is an odour or taste of the product inside the mask or in the connector, the mask should be replaced. If the contaminant has no clear warning properties, the use of isolating equipment is recommended.

C.- Specific hand protection.



Pictogram	Protective equipment	Marking	CEN standards	Notes
 Mandatory hands protection	Disposable gloves for protection against chemicals (Material: Linear Low Density Polyethylene (Material: Linear low density polyethylene		EN ISO 21420:2020	Replace the gloves if there are any signs of signs of damage.

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	(LLPDE), Breakthrough time: > 480 min, Material thickness: 0.062 mm)			
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As the product is composed of different materials, the durability of the glove cannot be tested beforehand in a totally therefore it must be tested prior to use. D.- Eyes and face protection

Pictogram	Protective equipment	Marking	CEN standards	Notes
 Mandatory face protection	Panoramic goggles against liquid splashes and/or splashes.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect regularly according to manufacturer's recommendations. Use is recommended where there is a risk of splashing.



E.- Body protection.

Pictogram	Protective equipment	Marking	CEN standards	Notes
	Work clothes			Replace if there are any signs of damage. For prolonged exposure to the product, EC III is recommended for professional/industrial users, in accordance with EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Work footwear anti-slip		EN ISO 20347:2012	Replace if there are any signs of damage. In case of prolonged exposure to the product, professional/industrial users are recommended to wear EC III, in conformity with EN ISO 20345:2012 y EN 13832- 1:2007

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F.- Additional emergency protection measures

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eye wash device	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

Under Community law on environmental protection legislation, it is recommended that the product and its packaging should not be released into the environment. See section 7.1 for more information.

In accordance with the requirements of OJ. 2020, item 1860, this product has the following properties:

VOC (Content):	0.09 % by weight
VOC concentration 20 °C:	1.09 kg/m ³ (1.09 g/L)
Average carbon number:	3,67
Average molecular weight:	72.1 g/mol

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	unidentified
Odour	unidentified
Odor threshold	unidentified
pH	No data
Density(20°C)	1161,8 g/cm ³
Boiling point	93°C
Melting point	No data
Flash point	Non-flammable (>60 °C)
Solubility in water	No data
Log Pow	No data
Auto-ignition temperature	214 °C

9.2 Other information

No data

10. Stability and reactivity

10.1 Reactivity

Product is non-reactive under storage and handling conditions. See section 7.

10.2 Chemical stability

Chemically stable under storage and use conditions.

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

10.3 Possibility of hazardous reactions

Not present if stored and handled according to specifications

10.4 Conditions to avoid

Use and store at room temperature.

Shocks and frictions	Air contact	Heating	Sun light	Humidity
not applicable	not applicable	precautions	Avoid direct impact	not applicable

10.5 Incompatible materials

Avoid contact with strong oxidants and strong bases.

10.6 Hazardous decomposition products

For more detailed information on decomposition products read Sections 10.3, 10.4 and 10.5 Depending on the conditions of decomposition, complex mixtures of chemical substances may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. See section 5 for more information.

11. Toxicological Information

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

Health hazards:

In case of repeated, prolonged exposure or concentrations higher than the established occupational exposure limits, adverse health effects may occur depending on the route of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Ingestion of a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting.
- Corrosive/irritant: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous. See section 3 for more information.

B- Inhalation (acute):

- Acute Toxicity: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous when inhaled. See section 3 for more information.
- Corrosive/irritant: Based on available data, the classification criteria are not met but the product contains substances classified as hazardous. See section 3 for more information.

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C- Skin and eye contact (acute):

- Skin contact: Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous when in contact with skin. See section 3 for further information.
- Eye contact: Causes damage on contact with eyes.

D- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. The product does not contain any substances classified as dangerous due to the above mentioned effects. See section 3 for further information.

IARC: Acrylic acid (3); 1,4-dihydroxybenzene (3)

- May cause genetic defects: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. See section 3 for further information.
- May damage fertility: Based on available data, the classification criteria are not met. The product does not contain any substances classified as hazardous. See section 3 for further information.

E- Sensitising effects:

- Respiratory: Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous due to their sensitising effects. See section 3 for further information.
- Dermal: Prolonged skin contact with the product may lead to allergic contact dermatitis.

F- Toxic effects on target organs (STOT) exposure time:

Based on available data, the classification criteria are not met, but the product contains substances classified as hazardous by inhalation. See section 3 for more information.

G- Specific target organ toxicity (STOT), repeated exposure:

- Specific target organ toxicity (STOT), repeated exposure: Based on available data, the classification criteria are not fulfilled. The product does not contain any substances classified as hazardous. See section 3 for further information.
- Dermal: Based on available data, the classification criteria are not met but the product does contain substances classified as hazardous in case of repeated exposure. See section 3 for more information.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. See section below for more information.

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H- Aspiration hazard:

Based on available data, the classification criteria are not met. The product does not contain substances classified as hazardous. See section below for more information.

Other information:

No data available

Detailed toxicological information about the substances:

Identification	Acute toxicity		Type
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	LD50 Orally	500 mg/kg	
	LD50 Dermal	No data	
	LC50 Inhalation	No data	
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	LD50 Orally	1000 mg/kg	Rat
	LD50 Dermal	No data	
	LC50 Inhalation	No data	
Ethyl phenyl(2,4,6 trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	LD50 Orally	>5000 mg/kg	Rat
	LD50 Dermal	2000 mg/kg	Rat
	LC50 Inhalation	No data	
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	LD50 Orally	500 mg/kg	Rat
	LD50 Dermal	1100 mg/kg	Rat
	LC50 Inhalation	11 mg/L (4h)	Rat
Butanone CAS: 78-93-3 EC: 201-159-0	LD50 Orally	4000 mg/kg	Rat
	LD50 Dermal	6400 mg/kg	Rabbit
	LC50 Inhalation	23,5 mg/L (4h)	Rat

12. Ecological information

12.1 Toxicity

Acute toxicity:

Identification		Concentration	Type	Type
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	LC50	3,2 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	13 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	12 mg/L (96 h)	Selenastrum capricornutum	Alga
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	LC50	0,034 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0,35 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,12 mg/L (72 h)	Pseudokirchneriella subcapitata	Alga

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Ethyl phenyl(2,4,6 trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	LC50	1,89 mg/L (96 h)	Danio rerio	Fish
	EC50	2,26 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1,01 mg/L (72 h)	Desmodesmus subspicatus	Alga
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	LC50	27 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	54 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	0,13 mg/L (72 h)	Scenedesmus subspicatus	Alga
Butanone CAS: 78-93-3 EC: 201-159-0	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Alga

Long-term toxicity:

Identification	Concentration		Type	Type
Acrylic acid	NOEC	No data		
CAS: 79-10-7 EC: 201-177-9	NOEC	19 mg/L	Daphnia magna	Fish

12.2 Persistence and degradability

Identification	Degradability		Biodegradability	
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	BOD	No data	Concentration	10 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	26 %
Ethyl phenyl(2,4,6 trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	BOD	No data	Concentration	100 mg/L
	COD	No data	Period	28 days
	BOD/COD	No data	% biodegradable	5 %
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	BOD	No data	Concentration	28 mg/L
	COD	No data	Period	No data
	BOD/COD	No data	% biodegradable	14 %
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	BOD	0,29 g O ₂ /g	Concentration	100 mg/L
	COD	1,41 g O ₂ /g	Period	14 days
	BOD/COD	0,21	% biodegradable	67,8 %
Butanone CAS: 78-93-3 EC: 201-159-0	BOD	2,03 g O ₂ /g	Concentration	No data
	COD	2,31 g O ₂ /g	Period	20 days
	BOD/COD	0,88	% biodegradable	89%

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12.3 Bioaccumulative potential

Identification	Bioaccumulative potential	
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	BCF	24
	Log POW	3,03
	Potencial	Low
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	BCF	
	Log POW	21
	Potencial	
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	BCF	1
	Log POW	0,35
	Potencial	Low
Butanone CAS: 78-93-3 EC: 201-159-0	BCF	3
	Log POW	0,29
	Potencial	Low

12.4 Mobility in soil

Identification	Absorption/ Desorption		Variability	
	Koc		Henry's law constants	No data
Pentaerythritol tetrakis (3-mercaptopropionate) CAS: 7575-23-7 EC: 231-472-8	Koc	264	Henry's law constants	No data
	Conclusions	medium	Dry soil	No data
	Surface tension	No data	Moist soil	No data
Ethyl phenyl(2,4,6 trimethylbenzoyl)phosphinate CAS: 84434-11-7 EC: 282-810-6	Koc	2344,2	Henry's law constants	No data
	Conclusions	low	Dry soil	No data
	Surface tension	No data	Moist soil	No data
2-Propenoic acid, reaction products with pentaerythritol CAS: 1245638-61-2 EC: -	Koc	64	Henry's law constants	No data
	Conclusions	very high	Dry soil	No data
	Surface tension	No data	Moist soil	No data
Acrylic Acid CAS: 79-10-7 EC: 201-177-9	Koc	No data	Henry's law constants	No data
	Conclusions	No data	Dry soil	No data
	Surface tension	2,85E-2 N/m (25 °C)	Moist soil	No data

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Butanone CAS: 78-93-3 EC: 201-159-0	Koc	30	Henry's law constants	5,77 Pa·m ³ /mol
	Conclusions	Very high	Dry soil	yes
	Surface tension	2,396E-2 N/m (25 °C)	Moist soil	yes

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT and vPvB

12.6 Endocrine disrupting properties:

Does not contain endocrine disruptors.

12.7 Other adverse effects

No information on other adverse effects.

13. Disposal considerations

13.1 Product disposal methods

Waste type (Commission Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP13 Sensitising, HP4 Irritant - skin irritation and eye damage

Waste administration (disposal and evaluation):

Hand over to a specialised disposal company authorised to assess and dispose of the waste in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC of the European Parliament and of the Council) and Coll. In accordance with code 15 01 (2014/955/EU), if the container comes into direct contact with the product, it must be handled in the same way as the product. Otherwise, it must be handled as non-hazardous waste. Its disposal into water courses is discouraged. See subsection 6.2.

Provisions concerning waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), Community or national provisions related to waste administration have been adopted.

Community law: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014

National law:

Act of 13 June 2013 on packaging and packaging waste management (i.e. Journal of Laws 2021, item 1114).

Act of 14 December 2012 on waste (i.e. Journal of Laws 2022 item 699).

14. Transport information

Surface transport of dangerous goods:

In accordance with the requirements of ADR 2021 and RID 2021:

14.1 UN Number: UN3082

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Conforms to Regulation (EC) No. 1907/2006 (REACH)

14.2 UN proper shipping name: ENVIRONMENTALLY
DANGEROUS LIQUID N.O. (Pentaerythritol tetrakis (3-mercaptopropionate))

14.3 Transport hazard class(es): 9

14.4 Packing group: III

14.5 Environmental hazards: YES

14.6 Special precautions for users:

Special provisions: 274,335,375,601

Code for restrictions on carriage through tunnels: -

Physical and chemical properties: see section 9

Limited quantity: 5 L

Sea transport of dangerous goods:

In accordance with the requirements of IMDG 39-18:

14.1 UN Number: UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY
DANGEROUS LIQUID N.O. (Pentaerythritol tetrakis (3-mercaptopropionate))

14.3 Transport hazard class(es): 9

14.4 Packing group: III

14.5 Environmental hazards: YES

14.6 Special precautions for users:

Special provisions: 335, 969, 274

EmS Codes: F-A, S-F

Physical and chemical properties: see section 9

Limited quantity: 5 L

Air transport of dangerous goods:

In accordance with IATA/ICAO 2022 requirements:

14.1 UN Number: UN3082

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH)

14.2 UN proper shipping name: ENVIRONMENTALLY
DANGEROUS LIQUID N.O. (Pentaerythritol tetrakis (3-mercaptopropionate))

14.3 Transport hazard class(es): 9

14.4 Packing group: III

14.5 Environmental hazards: YES

14.6 Special precautions for users:
Physical and chemical properties: see section 9

15. Regulatory information

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

Candidate substances for authorisation under Regulation (EC) 1907/2006(REACH): No data available

Substances present in REACH Annex XIV (Authorisation List) and expiry date: No data available

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: No data available

Article 95, REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL: No data

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals No data available

Seveso III:

Section	Description	requirements concerning establishments with upper-tier establishments	requirements concerning upper-tier establishments risk
E1	ENVIRONMENTAL HAZARDS	100	200

Restrictions on the sale and use of certain dangerous substances and mixtures (REACH Annex XVII, etc.):

May not be used in:

-decorative articles, intended to produce light or colour effects by means of different phases, e.g. in decorative lamps and ashtrays,

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-jokes and jokes,

-games intended for one or more participants, or articles intended to be used as such, even for decorative purposes.

Specific provisions related to the protection of humans or the environment:

It is recommended to use the information collected in this safety data sheet as preliminary data for local risk assessment in order to take the necessary steps to prevent risks arising from the handling of this product, as well as from its use, storage and disposal.

Other provisions:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 as amended

Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2020, item 2289)

Announcement of the Minister of Economy, Labour and Social Policy of 28 August 2003 on the announcement of a uniform text of the Regulation of the Minister of Labour and Social Policy on general principles of safety and hygiene at work (Dz.U. 2003 No. 169 pos. 1650 with later amendments)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of harmful factors in the workplace environment (Dz. U. No. 33 item 166 of 2011)

Act of 14 December 2012 on waste (Journal of Laws 2021, item 779).

Act of 9 October 2015 on biocidal products (Journal of Laws 2021, item 24).

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EEC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Regulation of the Minister of Health of 11 June 2012 on categories of hazardous substances and hazardous mixtures, the packaging of which shall be equipped with child-

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resistant closures and tactile warning of danger (i.e. Journal of Laws 2014 No. 0 item 1604)(deemed repealed)

Regulation of the Minister of Economy of 21 December 2005 on the basic requirements for personal protection measures (Journal of Laws of 2005, no. 259, item 2173).

Act of 19 August 2011 on the carriage of dangerous goods (Journal of Laws 2021, No. 0, item 756).

Government Statement of 22 May 2013 on the entry into force of the amendments to the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID), attached as Appendix C to the Convention concerning International Carriage by Rail (COTIF), adopted in Bern on 9 May 1980 . (Journal of Laws of 2013, item 840).

Regulation of the Minister of Economy of 10 October 2013 on the application of restrictions specified in Annex XVII to Regulation 1907/2006 (i.e. OJ 2018, item 1865)

Act of 13 June 2013 on the management of packaging and packaging waste (i.e. Journal of Laws 2021 item 1114).

Regulation of the Minister of Economy of 29 January 2013 on restrictions on the manufacture, marketing or use of dangerous or hazardous substances and mixtures and on the marketing or use of products containing such substances or mixtures (i.e. Journal of Laws 2019 No. 0 item 1226)

Regulation (EU) No 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) 1907/2006 and repealing Regulation (EU) No 98/20013.

Regulation of the Minister of Environment of 9 December 2014 on the catalogue of waste (Journal of Laws 2014 No. 0, item 1923) (deemed repealed).

Government Statement of 18 February 2019 on the entry into force of the amendments to Annexes A and B to the European Agreement concerning the international carriage of dangerous goods by road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 2019 item 769)

Act of 15 May 2015 on substances that deplete the ozone layer and on certain fluorinated greenhouse gases (i.e. Journal of Laws 2020 item 2065)

Regulation of the Minister of Health of 30 December 2004 on health and safety at work related to the presence of chemical agents in the workplace (i.e. Journal of Laws 2016 no. 0 item 1488)

Act of 29 July 2005 on counteracting drug addiction (i.e. Dz.U. 2020, item 2050)

Regulation of the Minister of Health of 24 July 2012 on chemical substances, their mixtures, agents or technological processes with a carcinogenic or mutagenic effect in the work environment (t.j. Dz.U. 2016., no. 0 item 1117 as amended).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018, item 1286 as amended)

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Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products Regulation of the Minister of Health of 16 June 2003 on defining categories of products that are cosmetics (Dz.U. 2003 No 125, item 1168).

Ordinance by the Minister of Health of 30 March 2005 on the list of substances prohibited or allowed with restrictions to be used in cosmetics and on graphic symbols placed on the packaging of cosmetics (Dz.U. 2005 No. 72, item 642).

Ordinance of the Minister of Health of 8 May 2013 amending the Ordinance on the lists of undisallowed or allowed substances with restrictions for use in cosmetics and graphic symbols placed on cosmetics packaging (Journal of Laws 2013 No. 0, item 540).

COMMISSION REGULATION (EU) No 1003/2014 of 18 September 2014 amending Annex V to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products

COMMISSION REGULATION (EU) No 1004/2014 of 18 September 2014 amending Annex V to Regulation (EC) No 1223/2009 of the European Parliament and of the Council on cosmetic products

Act of 4 October 2018. on cosmetic products (Journal of Laws 2018 item 2227)

15.2 Chemical Safety Assessment

There are no data on chemical safety assessment for substances in the mixture.

16. Other information

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed.

Classification process:

Eye Irrit. 2: Calculation method

Skin Sens. 1A: Calculation method

Aquatic Acute 1: Calculation method

Aquatic Chronic 1: Calculation method

Acute Tox. 4: Calculation method

Advice on personnel training:

It is recommended that personnel who will come into contact with this product receive basic training in occupational safety to facilitate understanding and interpretation of the safety data sheet and product label.

Main literature sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations used in the text:

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Class. dost.: supplier classification

ADR: International Convention on the carriage of dangerous goods and dangerous loads by road

IMDG: International Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical oxygen demand (COD)

BOD: Biochemical oxygen demand (BOD_n) over 5 days

BCF: Bioconcentration factor

Log POW: log octanol/water partition coefficient

WEL: maximum permissible concentration

MAK: maximum allowable instantaneous concentration

EC50: effective concentration (concentration of a component at which 50% of organisms show an effect in a given time)

LD50: median lethal dose

LC50: median lethal concentration

EC50: median effective concentration

PBT: bioaccumulative toxic potential

vPvB: very bioaccumulative toxicity

IWO: personal protection equipment

STP: sewage treatment plant

Henry: solubility of a given component in solution, related to the partial pressure of that component over the solution

EC: EINECS and ELINCS number (see also EINECS and ELINCS)

EINECS: European Inventory of Existing Substances of Commercial Significance

ELINCS: European List of Notified Chemical Substances CEN: European Committee for Standardisation

STOT: target organ toxicity

Koc: partition coefficient normalised to organic carbon content, measures the uptake of organic substances in soil

DNEL: derived no-effect level of exposure

PNEC: Predicted No-Effect Concentration

BDO: registration number from the Waste Data Base

UFI: unique identifier for the active substance

IARC: International Agency for Research on Cancer

The card was developed on the basis of national regulations and data provided by the manufacturer.
