

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : PRO-LINE® XT Paint Marker Red

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/mixture : Paint.

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

LA-CO Industries Europe S.A.S.  
Parc Industriel de la Plaine de  
l'Ain - Allée des Combes.  
01150.BLYES.France.  
Phone: +33 (0)4 74 46 23 23  
Fax: +33 (0)4 74 46 23 29  
E-mail: info@eu.laco.com  
Web: http://www.markal.com

**1.4. Emergency telephone number**

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Gifflinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyváradi tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73

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according to Regulation (EU) 2015/830

LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226

Skin Sens. 1 H317

Repr. 2 H361

Full text of classification categories and H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazardous ingredients :

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%), cobalt bis(2-ethylhexanoate)

Hazard statements (CLP) :

H226 - Flammable liquid and vapour  
H317 - May cause an allergic skin reaction  
H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (CLP) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, ventilating, lighting equipment  
P261 - Avoid breathing mist, vapours  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves, protective clothing  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P321 - Specific treatment (see First aid measures on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use Suitable extinguishing media to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool

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P405 - Store locked up

P501 - Dispose of contents/container to an authorised waste collection point

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Comments

: Only component with health hazards above the applicable thresholds and/or Exposure Limit values are shown.

Exact concentrations are withheld as trade secret.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tert-butyl acetate	(CAS No) 540-88-5 (EC no) 208-760-7 (EC index no) 607-026-00-7	30 – 50	Flam. Liq. 2, H225
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	(CAS No) 2786-76-7 (EC no) 220-509-3	10 – 15	Skin Sens. 1, H317
Cyclohexanone	(CAS No) 108-94-1 (EC no) 203-631-1 (EC index no) 606-010-00-7	10 – 15	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332
titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	5 – 10	Not classified
Kaolin	(CAS No) 1332-58-7 (EC no) 310-194-1	5 – 10	Not classified
2-methoxy-1-methylethyl acetate	(CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7	1 – 5	Flam. Liq. 3, H226
Butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	1 – 5	Flam. Liq. 3, H226 STOT SE 3, H336
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%)	(CAS No) 64742-48-9 (EC no) 265-150-3 (EC index no) 649-327-00-6	1 – 5	Asp. Tox. 1, H304
Stoddard solvent (benzene < 0.1%)	(CAS No) 8052-41-3 (EC no) 232-489-3 (EC index no) 649-345-00-4	0.1 – 1	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3	0.01 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 0.5	Not classified
Ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5	0.1 – 0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
2-methylpropan-2-ol	(CAS No) 75-65-0 (EC no) 200-889-7 (EC index no) 603-005-00-1	0 – 0.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT SE 3, H335
(2-Methoxymethylethoxy)-propanol	(CAS No) 34590-94-8 (EC no) 252-104-2	0.1 – 0.5	Not classified
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	< 0.1	Not classified
2-methoxypropyl acetate	(CAS No) 70657-70-4 (EC no) 274-724-2 (EC index no) 607-251-00-0	< 0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335
Distillates (petroleum), hydrotreated light	(CAS No) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	< 0.1	Asp. Tox. 1, H304
benzene-1,4-diol	(CAS No) 123-31-9 (EC no) 204-617-8 (EC index no) 604-005-00-4	< 0.1	Carc. 2, H351 Muta. 2, H341 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

Full text of R- and H-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Suspected of damaging fertility or the unborn child.
- Symptoms/injuries after skin contact : May cause an allergic skin reaction.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>), metallic oxides.

#### 5.3. Advice for firefighters

- Firefighting instructions : Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves.
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves.
- Emergency procedures : Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Wipe up with absorbent material (for example cloth).

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Oxidizing agent. Acids. Alkali. Moisture.
Incompatible materials	: Heat sources.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Incompatible materials.
Storage area	: Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Marking.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-methylpropan-2-ol (75-65-0)		
Finland	Huomautus (FI)	iho
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	248 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	80 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	100 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	462 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	150 ppm
Spain	Notes	s
Sweden	Anmärkning (SE)	H
Norway	Grænseverdier (Takverdi) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Norway	Grænseverdier (Takverdi) (ppm)	25 ppm
Cyclohexanone (108-94-1)		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	20 ppm
Finland	Huomautus (FI)	iho
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	40.8 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	Upozornenie (SK)	poznámka K
Spain	VLA-ED (mg/m <sup>3</sup> )	41 mg/m <sup>3</sup> vía dérmica,VLI,VLB
Spain	VLA-ED (ppm)	10 ppm vía dérmica,VLI,VLB 80 ppm I,S Con hidrólisis (9) "(1,2- Ciclohexanodiol en orina; Final de la semana laboral 1)" 8 ppm I,S Con hidrólisis (9) "(1,2- Ciclohexanodiol en orina; Final de la jornada laboral 2)"
Spain	VLA-EC (mg/m <sup>3</sup> )	82 mg/m <sup>3</sup> vía dérmica,VLI,VLB
Spain	VLA-EC (ppm)	20 ppm vía dérmica,VLI,VLB
Butyl acetate (123-86-4)		
Austria	MAK (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	(gemessen als Momentanwert)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	1420 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	150 ppm

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<b>Butyl acetate (123-86-4)</b>		
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	965 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	200 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	355 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	75 ppm
<b>1,2,4-trimethylbenzene (95-63-6)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	20 ppm
Lithuania	Remark (LT)	Ta pati RV, iðreikõta mg/m <sup>3</sup> , yra taikoma kitiems polialkilbenzenams.
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	35 ppm
Sweden	Anmärkning (SE)	55
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	VLI
Sweden	Anmärkning (SE)	H
<b>2-methoxypropyl acetate (70657-70-4)</b>		
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	224 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	110 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm

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<b>2-methoxypropyl acetate (70657-70-4)</b>		
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	5 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	40 ppm
Spain	Notes	TR1B,r
<b>Aluminum oxide (1344-28-1)</b>		
Austria	MAK (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) 5 mg/m <sup>3</sup> (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m <sup>3</sup> (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Belgium	Remark (BE)	(oxyde d') (en Al)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (total) 2 mg/m <sup>3</sup> (respirabel)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total) 4 mg/m <sup>3</sup> (respirabel)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
France	Note (FR)	(respirable aerosol)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	Remark (TRGS 900)	(gemessen als alveolengängiger Staubanteil)
Hungary	AK-érték	6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
Lithuania	IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> (dymy, pyl calkowity) 1.2 mg/m <sup>3</sup> (dymy, pyl respirabilny)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate <sup>3</sup> / <sub>4</sub> ná frakcia)
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (inhalable aerosol) 2 mg/m <sup>3</sup> (respirable aerosol)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable aerosol) 4 mg/m <sup>3</sup> (respirable aerosol)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Norway	Merknader (NO)	1)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(respirable aerosol)
<b>Aluminum hydroxide (21645-51-2)</b>		
Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
Austria	MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> dymy, pyl calkowity 1.2 mg/m <sup>3</sup> dymy, pyl respirabilny
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovate <sup>3</sup> / <sub>4</sub> ná frakcia)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängige Fraktion)
<b>Kaolin (1332-58-7)</b>		
Belgium	Remark (BE)	(fraction alvéolaire)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>

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<b>Kaolin (1332-58-7)</b>		
Denmark	Anmærkninger (DK)	respirable aerosol
Finland	Huomautus (FI)	(alveolijae)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
France	Note (FR)	respirable aerosol
Spain	VLA-ED (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	Notes	d,e
United Kingdom	Remark (WEL)	respirable aerosol
Switzerland	Remark (CH)	(respirable aerosol)
<b>Ethyl acetate (141-78-6)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	1080 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	150 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	1460 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	400 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	730 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1460 mg/m <sup>3</sup>
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt; 0.1%) (64742-48-9)</b>		
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	290 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	(Terpentin, mineralsk, max. 20 pct. aromater; 2)
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Spain	VLA-ED (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Anmärkning (SE)	H
<b>benzene-1,4-diol (123-31-9)</b>		
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Slovakia	Upozornenie (SK)	poznámka K
Spain	VLA-ED (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Spain	Notes	Sen
Sweden	Anmärkning (SE)	S 9
<b>titanium dioxide (13463-67-7)</b>		
Belgium	Remark (BE)	(dioxyde de)
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	12 mg/m <sup>3</sup>
France	Note (FR)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> total inhalable dust 4 mg/m <sup>3</sup> respirable dust
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	Notes	inhalable aerosol



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titanium dioxide (13463-67-7)		
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Sweden	Anmärkning (SE)	total dust, 1
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol
Switzerland	Remark (CH)	(respirable aerosol)

### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Use rubber gloves. EN374.
Eye protection	: None under normal use.
Skin and body protection	: Long sleeved protective clothing.
Respiratory protection	: None under normal use.
Other information	: Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: red.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 23 - 37.8 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 67 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

### 10.5. Incompatible materials

Oxidizer. Acids. Alkali. Moisture.

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### 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : metallic oxides. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>tert-butyl acetate (540-88-5)</b>	
LD50 oral rat	4100 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	4211 ppm 6 h
ATE CLP (oral)	4100.000 mg/kg bodyweight

<b>2-methylpropan-2-ol (75-65-0)</b>	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	> 9700 ppm/4h
ATE CLP (oral)	3500.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

<b>Cyclohexanone (108-94-1)</b>	
ATE CLP (dust,mist)	1.500 mg/l/4h

<b>Butyl acetate (123-86-4)</b>	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 inhalation rat (mg/l)	> 21 mg/l/4h
ATE CLP (oral)	10760.000 mg/kg bodyweight

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50 oral rat	3415 mg/kg
LD50 dermal rat	3440 mg/kg
LC50 inhalation rat (ppm)	954 ppm
ATE CLP (oral)	3415.000 mg/kg bodyweight
ATE CLP (dermal)	3440.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	4345 ppm 6 h
ATE CLP (oral)	8532.000 mg/kg bodyweight

<b>2-methoxypropyl acetate (70657-70-4)</b>	
LC50 inhalation rat (ppm)	2700 ppm 6 h

<b>4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol &lt;1%) (2786-76-7)</b>	
LD50 oral rat	> 15000 mg/kg
LC50 inhalation rat (mg/l)	> 1580 mg/m <sup>3</sup> 4 h

<b>Aluminum oxide (1344-28-1)</b>	
LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	7.6 mg/l/4h
ATE CLP (vapours)	7.600 mg/l/4h
ATE CLP (dust,mist)	7.600 mg/l/4h

<b>Ethyl acetate (141-78-6)</b>	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 18 mg/l/4h
ATE CLP (oral)	5620.000 mg/kg bodyweight

<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt; 0.1%) (64742-48-9)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5610 mg/m <sup>3</sup>

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<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.28 mg/l/4h
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 10 mg/l/4h
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 inhalation rat (mg/l)	> 1667 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 1667 mg/l/4h
<b>benzene-1,4-diol (123-31-9)</b>	
LD50 oral rat	375 mg/kg
ATE CLP (oral)	375.000 mg/kg bodyweight
<b>titanium dioxide (13463-67-7)</b>	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h
<b>Skin corrosion/irritation</b>	: Not classified
<b>Serious eye damage/irritation</b>	: Not classified
<b>Respiratory or skin sensitisation</b>	: May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>titanium dioxide (13463-67-7)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
<b>Reproductive toxicity</b>	: Suspected of damaging fertility or the unborn child.
<b>Specific target organ toxicity (single exposure)</b>	: Not classified
<b>Specific target organ toxicity (repeated exposure)</b>	: Not classified
<b>Aspiration hazard</b>	: Not classified
<b>SECTION 12: Ecological information</b>	
<b>12.1. Toxicity</b>	
<b>tert-butyl acetate (540-88-5)</b>	
LC50 fish 1	240 mg/l 96 h
EC50 Daphnia 1	410 mg/l 24 h
<b>2-methylpropan-2-ol (75-65-0)</b>	
LC50 fish 1	> 961 mg/l 96 h
EC50 Daphnia 1	933 mg/l 48 h
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LC50 fish 1	7.72 mg/l
LC50 other aquatic organisms 1	3.6 mg/l
EC50 other aquatic organisms 1	2.356 mg/l
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
LC50 fish 1	100 - 180 mg/l
EC50 Daphnia 1	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l
<b>4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol &lt;1%) (2786-76-7)</b>	
LC50 fish 1	> 500 mg/l 96 h
EC50 Daphnia 1	> 110 mg/l 48 h
<b>Aluminum oxide (1344-28-1)</b>	
EC50 Daphnia 1	> 1470 mg/l
NOEC (acute)	> 50 mg/l

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<b>Kaolin (1332-58-7)</b>	
LC50 fish 1	> 1000 mg/l 96 h
EC50 Daphnia 1	> 1000 mg/l 48 h
<b>Ethyl acetate (141-78-6)</b>	
LC50 fish 1	220 mg/l
EC50 Daphnia 1	1200 mg/l
NOEC chronic fish	< 9.35 mg/l
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt; 0.1%) (64742-48-9)</b>	
LC50 fish 1	8.2 mg/l
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
LC50 fish 1	> 1000 mg/l Poecilia reticulata
ErC50 (algae)	> 1000 mg/l
<b>benzene-1,4-diol (123-31-9)</b>	
LC50 fish 1	0.638 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	0.134 mg/l

### 12.2. Persistence and degradability

<b>tert-butyl acetate (540-88-5)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	50 % 28 d
<b>2-methylpropan-2-ol (75-65-0)</b>	
Persistence and degradability	inherently biodegradable.
Biodegradation	66 % 56 d
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d
<b>4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol &lt;1%) (2786-76-7)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d
<b>Kaolin (1332-58-7)</b>	
Persistence and degradability	Not readily biodegradable.
<b>Ethyl acetate (141-78-6)</b>	
Persistence and degradability	Readily biodegradable.
<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>tert-butyl acetate (540-88-5)</b>	
BCF fish 1	5.61
Log Pow	1.64
<b>2-methylpropan-2-ol (75-65-0)</b>	
Log Pow	0.317
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
Log Pow	0.43
<b>4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol &lt;1%) (2786-76-7)</b>	
BCF fish 1	53 l/kg
Log Pow	1.28
<b>Ethyl acetate (141-78-6)</b>	
Bioaccumulative potential	Not expected to bioaccumulate.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Log Kow	2.1 - 5
Bioaccumulative potential	Bioaccumulative potential.
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
Log Pow	3.16 - 7.15

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benzene-1,4-diol (123-31-9)	
Log Pow	0.5

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

PRO-LINE® XT Paint Marker Red	
PBT: not yet assessed	
vPvB: not yet assessed	
Component	
Ethyl acetate (141-78-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
H code	: H10 - 'Toxic for reproduction': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenital malformations or increase their incidence. H13 - 'Sensitizing': substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a reaction of hypersensitization such that on further exposure to the substance or preparation, characteristic adverse effects are produced. H3-B - 'Flammable': liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR)	: 1263
UN-No. (IATA)	: 1263
UN-No. (IMDG)	: 1263
UN-No. (ADN)	: 1263

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Paint
Proper Shipping Name (IATA)	: Paint
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (ADN)	: PAINT
Transport document description (ADR)	: UN 1263 PAINT, 3, III, (D/E)

### 14.3. Transport hazard class(es)

Class (ADR)	: 3
Classification code (ADR)	: F1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: F1

### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IATA)	: III
Packing group (IMDG)	: III
Packing group (ADN)	: III

### 14.5. Environmental hazards

Other information : No supplementary information available.

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### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 30  
Classification code (ADR) : F1  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

#### 14.6.2. Transport by sea

EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : A

#### 14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 67 %

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 2 - hazard to waters

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:

Original Document.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weight Average
	TSCA: Toxic Substances Control Act

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### Data sources

: ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.  
European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.  
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.  
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.

### Other information

: None.

### Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H360D	May damage the unborn child
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R36	Irritating to eyes
R36/37	Irritating to eyes and respiratory system
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R45	May cause cancer

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R46	May cause heritable genetic damage
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
R68	Possible risk of irreversible effects
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	On basis of test data
Skin Sens. 1	H317	Calculation method
Repr. 2	H361	Expert judgment

LA-CO EU CLP SDS

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*