

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

Product form : Mixture
Product name. : Pro-Line® HT Paint Markers
Synonyms : Pro-Line® HT - White, Yellow, Black, Blue

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

Main use category : Industrial use, Professional use
Use of the substance/mixture : Marking.

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/Antigifcentrum 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	Giftlinjen 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

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ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavík	+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 Rīga	+371 67 04 24 73
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]

The product is not classified in accordance with 1272/2008/EC, following consideration of the form and physical state in which the mixture is placed on the market and in which it can reasonably be expected to be used.

Classification according to Directive 67/548/EEC or 1999/45/EC

The product is not classified in accordance with 1272/2008/EC, following consideration of the form and physical state in which the mixture is placed on the market and in which it can reasonably be expected to be used.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazardous ingredients : Titanium dioxide

EUH phrases : EUH210 - Safety data sheet available on request

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Only component with health hazards above the applicable thresholds and/or with Exposure Limit values are shown. Exact concentrations withheld as trade secret.

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hematite, chromium green black	(CAS No) 68909-79-5 (EC no) 272-713-7	0 – 50	Not classified	Not classified
Titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	0 – 40	Not classified	Carc. 2, H351i
antimony nickel titanium oxide yellow C.I. 77788	(CAS No) 8007-18-9 (EC no) 232-353-3	0 – 30	Not classified	Not classified
Cyclohexanone	(CAS No) 108-94-1 (EC no) 203-631-1 (EC index no) 606-010-00-7	5 – 10	R10 Xn; R20	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum hydrocarbon resin	(CAS No) 64742-16-1 (EC no) 265-116-8	1 – 5	Not classified	Not classified
Silica gel	(CAS No) 112926-00-8	0 – 5	Not classified	Not classified
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 5	Not classified	Not classified
(2-Methoxymethylethoxy)-propanol	(CAS No) 34590-94-8 (EC no) 252-104-2	0.1 – 1	Not classified	Not classified
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	0 – 1	Not classified	Not classified

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.
- Symptoms/injuries after skin contact : May cause moderate irritation.
- Symptoms/injuries after eye contact : May cause slight irritation.
- Symptoms/injuries after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

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

Treat symptomatically and supportively.

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 : Highly flammable liquid and vapour.
- Explosion hazard : Product is not explosive.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. metallic oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Store in dry, cool, well-ventilated area.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flamm resistant/retardant clothing. EN 469.

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 naked lights. No smoking.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. In case of inadequate ventilation wear respiratory protection.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
- Emergency procedures : Ventilate area.

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6.2. Environmental precautions

Contains no substances known to be hazardous to the environment. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible products : Alkali. Oxidizer. acid. Moisture.
Incompatible materials : Heat sources.
Heat-ignition : Keep away from heat, sparks and flame.
Prohibitions on mixed storage : Keep away from incompatible materials.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Petroleum hydrocarbon resin (64742-16-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (respirable dust fraction)
Aluminum oxide (1344-28-1)		
Austria	MAK (mg/m ³)	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m ³)	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark*	(oxyde d') (en Al)
France	Local name	Aluminium (trioxyde de di-)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	(respirable aerosol)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	3 mg/m ³
Germany	Remark (TRGS 900)	(gemessen als alveolengängiger Staubanteil)
Spain	Local name	Óxido de aluminio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Switzerland	Local name	Aluminium, fumée d'oxyde
Switzerland	VLE (mg/m ³)	24 mg/m ³
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Denmark	Local name	Aluminiumoxid, beregnet som Al, total (2005)
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Hungary	Local name	DIALUMÍNIUM-TRIOXID (Al-ra számítva)
Hungary	AK-érték	6 mg/m ³
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)

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Aluminum oxide (1344-28-1)		
Lithuania	IPRV (mg/m ³)	2 mg/m ³
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Norway	Local name	Aluminiumoksid
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1)
Poland	NDS (mg/m ³)	2.5 mg/m ³ (dymy, pyl calkowity) 1.2 mg/m ³ (dymy, pyl respirabilny)
Romania	Local name	Oxid de aluminiu (aerosoli)
Romania	OEL TWA (mg/m ³)	2 mg/m ³
Romania	OEL TWA (ppm)	0.5 ppm
Romania	OEL STEL (mg/m ³)	5 mg/m ³
Romania	OEL STEL (ppm)	1.2 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
Portugal	Local name	Óxido de alumínio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Croatia	Local name	Aluminijev oksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
Aluminum hydroxide (21645-51-2)		
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Latvia	Local name	Alumīnija hidroksīds
Latvia	OEL TWA (mg/m ³)	6 mg/m ³
Lithuania	Local name	Aliuminio hidroksidas
Lithuania	IPRV (mg/m ³)	6 mg/m ³
Lithuania	Remark (LT)	F
Silica gel (112926-00-8)		
Belgium	Local name	Silices amorphes : précipités (gel de silice)
Belgium	Limit value (mg/m ³)	10 mg/m ³
Finland	Local name	Piidioksidi, saostettu
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
antimony nickel titanium oxide yellow C.I. 77788 (8007-18-9)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ nickel metal and insoluble compounds, as Ni; 0.5 mg/m ³ antimony and compounds, as Sb
hematite, chromium green black (68909-79-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.01 mg/m ³ Chromium and inorganic compounds, insoluble Cr VI compounds; 0.5 mg/m ³ Chromium and inorganic compounds, as Cr
Cyclohexanone (108-94-1)		
EU	Local name	Cyclohexanone
EU	IOELV TWA (mg/m ³)	40.8 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	81.6 mg/m ³
EU	IOELV STEL (ppm)	20 ppm
EU	Notation	Skin
Austria	Local name	Cyclohexanone
Austria	MAK (mg/m ³)	20 mg/m ³
Austria	MAK (ppm)	5 ppm
Austria	MAK Short time value (mg/m ³)	80 mg/m ³
Austria	MAK Short time value (ppm)	20 ppm
Austria	Remark (AT)	H
Belgium	Local name	Cyclohexanone

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Cyclohexanone (108-94-1)		
Belgium	Limit value (mg/m³)	40.8 mg/m³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m³)	81.6 mg/m³
Belgium	Short time value (ppm)	20 ppm
Belgium	Remark*	D
Bulgaria	Local name	Циклохексанон•
Bulgaria	OEL TWA (mg/m³)	40.8 mg/m³
Bulgaria	OEL STEL (mg/m³)	81.6 mg/m³
France	Local name	Cyclohexanone
France	VLE (mg/m³)	81.6 mg/m³
France	VLE (ppm)	20 ppm
France	VME (mg/m³)	40.8 mg/m³
France	VME (ppm)	10 ppm
Germany	Local name	Cyclohexanon
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	80 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	Remark (TRGS 900)	AGS,EU,H,Y
Greece	OEL TWA (mg/m³)	200 mg/m³
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m³)	400 mg/m³
Greece	OEL STEL (ppm)	100 ppm
Italy - Portugal - USA ACGIH	Local name	Cyclohexanone
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	50 mg/m³
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	50 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Eye & URT irr
Italy	Local name	Cicloesanone
Italy	OEL TWA (mg/m³)	40.8 mg/m³
Italy	OEL TWA (ppm)	10 ppm
Italy	OEL STEL (mg/m³)	81.6 mg/m³
Italy	OEL STEL (ppm)	20 ppm
Spain	VLA-ED (mg/m³)	41 mg/m³ 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/m³)	82 mg/m³ vía dérmica,VLI,VLB
Spain	VLA-EC (ppm)	20 ppm vía dérmica,VLI,VLB
Switzerland	Local name	Cyclohexanone
Switzerland	VLE (mg/m³)	200 mg/m³
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m³)	100 mg/m³
Switzerland	VME (ppm)	25 ppm
Switzerland	Remark (CH)	4x15
The Netherlands	Local name	Cyclohexanon
The Netherlands	MAC TGG 15MIN (mg/m³)	50 mg/m³
The Netherlands	Remark (MAC)	H
United Kingdom	Local name	Cyclohexanone
United Kingdom	WEL TWA (mg/m³)	41 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m³)	82 mg/m³
United Kingdom	WEL STEL (ppm)	20 ppm
United Kingdom	Remark (WEL)	Sk, BMGV
Czech Republic	Local name	Cyklohexanon
Czech Republic	Expoziční limity (PEL) (mg/m3)	40 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	10 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m3)	80 mg/m³

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Cyclohexanone (108-94-1)		
Czech Republic	Expoziční limity (NPK-P) (ppm)	19.9 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Cyclohexanon (1996)
Denmark	Grænseværdie (langvarig) (mg/m3)	40 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Denmark	Grænseværdie (kortvarig) (mg/m3)	80 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	EH
Finland	Local name	Sykloheksanoni
Finland	HTP-arvo (8h) (mg/m3)	41 mg/m ³
Finland	HTP-arvo (8h) (ppm)	10 ppm
Finland	HTP-arvo (15 min)	82 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	20 ppm
Finland	Huomautus (FI)	iho
Hungary	Local name	CIKLOHEXANON
Hungary	AK-érték	40.8 mg/m ³
Hungary	CK-érték	81.6 mg/m ³
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	Local name	Cyclohexanone
Ireland	OEL (8 hours ref) (mg/m3)	40.8 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m3)	81.6 mg/m ³
Ireland	OEL (15 min ref) (ppm)	20 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	Local name	Cikloheksanonas
Lithuania	IPRV (mg/m3)	40.8 mg/m ³
Lithuania	IPRV (ppm)	10 ppm
Lithuania	TPRV (mg/m3)	81.6 mg/m ³
Lithuania	TPRV (ppm)	20 ppm
Lithuania	Remark (LT)	O
Norway	Local name	Sykloheksanon
Norway	Gjennomsnittsverdier (AN) (mg/m3)	80 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	20 ppm
Norway	Merknader (NO)	H
Poland	Local name	Cykloheksanon
Poland	NDS (mg/m3)	40 mg/m ³
Poland	NDSCh (mg/m3)	80 mg/m ³
Romania	Local name	Ciclohexanona
Romania	OEL TWA (mg/m3)	40.8 mg/m ³
Romania	OEL TWA (ppm)	10 ppm
Romania	OEL STEL (mg/m3)	81.6 mg/m ³
Romania	OEL STEL (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m3)	40.8 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	Upozornenie (SK)	poznámka K
Sweden	Local name	Cyclohexanone
Sweden	nivågränsvärde (NVG) (mg/m3)	41 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm

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Cyclohexanone (108-94-1)		
Sweden	kortidsvärde (KTV) (mg/m ³)	81 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	20 ppm
Portugal	Local name	Ciclo-hexanona
Portugal	OEL TWA (ppm)	20 ppm
Croatia	Local name	Cikloheksanon
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	40.8 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	10 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	81.6 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	Naznake (HR)	K, EU* N

Titanium dioxide (13463-67-7)		
Austria	Local name	Titanium dioxide
Austria	MAK (mg/m ³)	5 mg/m ³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m ³)	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium	Local name	Titane (dioxyde de)
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark*	(dioxyde de)
Bulgaria	Local name	Титанов диоксид, респирабилен прах
Bulgaria	OEL TWA (mg/m ³)	10 mg/m ³
France	Local name	Titane (dioxyde de),en Ti
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	inhalable aerosol
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Italy - Portugal - USA ACGIH	Local name	Titanium dioxide
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
Latvia	Local name	Titānadioksīds
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
Switzerland	Local name	Dioxyde de titane
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Denmark	Local name	Titandioxid, beregnet som Ti
Denmark	Grænseværdie (langvarig) (mg/m ³)	6 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	12 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Lithuania	Local name	Titano dioksidas
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Norway	Local name	Titandioksid
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	5 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Sweden	Local name	Titanium dioxide total dust
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	Anmärkning (SE)	total dust, 1
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Croatia	Local name	Titanov dioksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m³)	308 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	Notation	Skin
Austria	Local name	(2-Methoxymethylethoxy) propanol
Austria	MAK (mg/m³)	307 mg/m³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m³)	614 mg/m³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	H
Belgium	Local name	Dipropylèneglycolmonométhyléter
Belgium	Limit value (mg/m³)	308 mg/m³
Belgium	Limit value (ppm)	50 ppm
Belgium	Remark*	D
Bulgaria	Local name	пропанол•
Bulgaria	OEL TWA (mg/m³)	308 mg/m³
France	Local name	(2-méthoxyméthylethoxy)-propanol
France	VME (mg/m³)	308 mg/m³
France	VME (ppm)	50 ppm
France	Note (FR)	Peau
Germany	Local name	(2-Methoxymethylethoxy)propanol(Isomerengemisch)
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	310 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m³)	310 mg/m³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Germany	Remark (TRGS 900)	DFG,EU
Greece	OEL TWA (mg/m³)	600 mg/m³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m³)	900 mg/m³
Greece	OEL STEL (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	606 mg/m³
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m³)	909 mg/m³
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	150 ppm
Italy	Local name	(2-Metossimetilotossi)-propanolo
Italy	OEL TWA (mg/m³)	308 mg/m³
Italy	OEL TWA (ppm)	50 ppm
Latvia	Local name	Metoksipropoksi propanols (dipropilēnglikola monometilēteris,DPM)
Latvia	OEL TWA (mg/m³)	308 mg/m³
Latvia	OEL TWA (ppm)	50 ppm
Spain	VLA-ED (mg/m³)	308 mg/m³
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Switzerland	Local name	Oxyde de dipropylèneglycolméthyle (mélange d'isomères)
Switzerland	VLE (mg/m³)	300 mg/m³
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m³)	300 mg/m³
Switzerland	VME (ppm)	50 ppm
Switzerland	Remark (CH)	15 min
The Netherlands	Local name	Dipropyleenglycolmethylether
The Netherlands	MAC TGG 8H (mg/m³)	300 mg/m³
United Kingdom	Local name	(2-methoxymethylethoxy) propanol
United Kingdom	WEL TWA (mg/m³)	308 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	Remark (WEL)	Sk

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Czech Republic	Local name	propanol(2-Methoxymethylethoxy)-(technická směs isomerů)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	44.6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	90.8 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Dipropylenglycolmethylether (1994)
Denmark	Grænseværdie (langvarig) (mg/m ³)	300 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	600 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Denmark	Anmærkninger (DK)	EH
Finland	Local name	(2-Metoksimetyylietoksi)-propanoli
Finland	HTP-arvo (8h) (mg/m ³)	310 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	Huomautus (FI)	iho
Hungary	Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilenglikol-monometil-éter)
Hungary	AK-érték	308 mg/m ³
Hungary	CK-érték	308 mg/m ³
Hungary	Megjegyzések (HU)	EU1
Ireland	Local name	(2-Methoxymethylethoxy)-l-propanol
Ireland	OEL (8 hours ref) (mg/m ³)	308 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Lithuania	Local name	2-(2-metoksipropoksi)-propanolis (2-etoksimetiletoksi)-propanolis, dipropilenglikolio monometileteris
Lithuania	IPRV (mg/m ³)	300 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	450 mg/m ³
Lithuania	TPRV (ppm)	75 ppm
Lithuania	Remark (LT)	O
Malta	Local name	(2-Methoxymethylethoxy)-propanol
Malta	OEL TWA (mg/m ³)	308 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Norway	Local name	(2-Metoksymetyletoksi)-propanol
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	300 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Poland	Local name	(2-Metoksymetyloetoksi)propanol
Poland	NDS (mg/m ³)	240 mg/m ³
Poland	NDSch (mg/m ³)	480 mg/m ³
Romania	Local name	(2-metoximetiletoksi)-propanol
Romania	OEL TWA (mg/m ³)	308 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	308 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Sweden	Local name	Dipropylene glycol monomethyl ether

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Sweden	nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
Portugal	Local name	2-Metoximetiletoxipropanol (DPGME)
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
Croatia	Local name	(2-Metoksimetiletoksi)– – propanol
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	308 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	Naznake (HR)	K, EU*

8.2. Exposure controls

Appropriate engineering controls	: Avoid creating mist or spray. Avoid splashing. Provide local exhaust ventilation of closed transfer systems to minimize exposures.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: None under normal use. It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. rubber. EN 374.
Eye protection	: No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where liquid could be splashed or sprayed. EN 166.
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 12083.
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	: White. Blue. Black. Yellow.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 90 °C
Flash point	: 19 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly 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	: Product is not explosive.
Oxidising properties	: No oxidizing properties.
Explosive limits	: No data available

9.2. Other information

VOC content	: 34.4-52.3%
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Highly flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

Oxidizing agent. Moisture. Alkali. Acid.

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : metallic oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Petroleum hydrocarbon resin (64742-16-1)	
LD50 oral rat	7000 mg/kg
ATE (oral)	7000.000 mg/kg bodyweight

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

antimony nickel titanium oxide yellow C.I. 77788 (8007-18-9)	
LD50 oral rat	> 2000 mg/kg no deaths occurred
LC50 inhalation rat (mg/l)	no mortality after 7h

hematite, chromium green black (68909-79-5)	
LD50 oral rat	> 2000 mg/kg no deaths occurred
LC50 inhalation rat (mg/l)	> 5.14 mg/l/4h no deaths occurred

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

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
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

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified. (Based on available data, the classification criteria are not met)

Titanium dioxide (13463-67-7)	
NOAEL (chronic,oral, animal/male,2 years)	5 mg/kg bodyweight rat
Carc. 2	Through inhalation of dust

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

Aluminum oxide (1344-28-1)	
EC50 Daphnia 1	> 1470 mg/l
NOEC (acute)	> 50 mg/l
antimony nickel titanium oxide yellow C.I. 77788 (8007-18-9)	
LC50 fishes 1	> 10000 mg/l <i>Leuciscus idus</i>
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LC50 fishes 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 (algae)	> 1000 mg/l

12.2. Persistence and degradability

Pro-Line® HT Paint Markers	
Persistence and degradability	Not established.
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Pro-Line® HT Paint Markers	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Pro-Line® HT Paint Markers	
PBT: not yet assessed	
vPvB: not yet assessed	

12.6. Other adverse effects

Other adverse effects : Avoid release to the environment.

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.
Ecology - waste materials : Dispose of container in a licensed facility.
EURLW code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
20 01 27* - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Class (UN) : 3

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Classification code (UN)	: F1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: F1
Hazard labels (UN)	: 3



Hazard labels (IATA)	: 3
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Danger labels (IMDG)	: 3
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Danger labels (ADN)	: 3
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14.4. Packing group

Packing group (UN)	: II
Packing group (IATA)	: II
Packing group (IMDG)	: II
Packing group (ADN)	: II

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.)	: 33
Classification code (UN)	: F1
Orange plates	:



Special provision (ADR)	: 163, 650, 640D
Transport category (ADR)	: 2
Tunnel restriction code	: D/E
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E2
EAC code	: •3YE

14.6.2. Transport by sea

Special provision (IMDG)	: 163
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E

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EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

14.6.3. Air transport

CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 353
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 5L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	: A3, A72
ERG code (IATA)	: 3L

14.6.4. Inland waterway transport

Special provision (ADN)	: 163, 64D, 65
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

VOC content : 34.4-52.3%

15.1.2. National regulations

Germany

Water hazard class (WGK) : nwg - non-hazardous to water

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Original Document.

Data sources

: ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. ACGIH 2000.

European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>.

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.

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Abbreviations and acronyms

: ATE: Acute Toxicity Estimate.
CAS (Chemical Abstracts Service) number.
CLP: Classification, Labelling, Packaging.
DNEL: Derived No Effect Level.
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.
NOEC: No Observable Effect Concentration.
PBT: Persistent, Bioaccumulative, Toxic.
PNEC: Predicted No Effect Level.

Other information

: None.

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351i	Suspected of causing cancer through inhalation
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R36/38	Irritating to eyes and skin.
F	Highly flammable
Xi	Irritant
Xn	Harmful.

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LA-CO EU CLP SDS

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.