

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

Product form : Mixture  
Trade name : Lacquer Stik® White

**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, Nagyvárad 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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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]

Skin Sens. 1A H317

Repr. 2 H361

Aquatic Chronic 2 H411

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 :

cobalt bis(2-ethylhexanoate)

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction  
H361 - Suspected of damaging fertility or the unborn child  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P261 - Avoid breathing dust, fume  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of water  
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  
P391 - Collect spillage  
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

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### 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]
titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	20 – 30	Not classified
limestone	(CAS No) 1317-65-3 (EC no) 215-279-6	15 – 25	Not classified
zinc oxide	(CAS No) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7	1 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 2	Not classified
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
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	0 – 1	Not classified
cobalt bis(2-ethylhexanoate)	(CAS No) 136-52-7 (EC no) 205-250-6	0.1 – 0.5	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cadmium substance listed as REACH Candidate	(CAS No) 7440-43-9 (EC no) 231-152-8 (EC index no) 048-002-00-0	< 0.1	Acute Tox. 2 (Inhalation:dust,mist), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lead	(CAS No) 7439-92-1 (EC no) 231-100-4	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332

Full text of R- and H-statements: 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. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : 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 : Get medical advice/attention if you feel unwell.

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

Symptoms/injuries : Suspected of damaging fertility or the unborn child.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact : May cause slight irritation.

Symptoms/injuries after ingestion : Diarrhea. Nausea.

#### 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 : Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media : None known.

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

Fire hazard : No particular fire or explosion hazard.

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### 5.3. Advice for firefighters

- Firefighting instructions : Keep upwind.  
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 : Avoid contact with skin and eyes. Avoid creating or spreading dust.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.  
Emergency procedures : Ventilate area. Stop leak if safe to do so.

### 6.2. Environmental precautions

- Avoid release to the environment.

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

- For containment : Contain and collect as any solid.  
Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

### 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 : Avoid breathing dust. 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. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

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

- Incompatible products : Oxidizer.  
Incompatible materials : Heat sources.  
Heat and ignition sources : Keep away from heat, sparks and flame.  
Prohibitions on mixed storage : Keep away from incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

- Paint.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Aluminum oxide (1344-28-1)		
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>

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<b>Aluminum oxide (1344-28-1)</b>		
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. biūrėk 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> (inhalovateľná 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> (inhalovateľná frakcia)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängige Fraktion)
<b>limestone (1317-65-3)</b>		
Belgium	Remark (BE)	(carbonate de)
Hungary	Megjegyzések (HU)	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
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	Notes	inhalable aerosol
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 4 mg/m <sup>3</sup> (respirable dust)
Switzerland	Remark (CH)	(respirable aerosol)
<b>zinc oxide (1314-13-2)</b>		
Austria	Remark (AT)	(alveolengängiger Anteil)
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (oxyde de, poussières) 5 mg/m <sup>3</sup> (oxyde de, fumées)
Ireland	Notes (IE)	(R)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Slovakia	Upozornenie (SK)	krátkodobý: kategória I. , respirabilná frakcia
Spain	VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	Anmärkning (SE)	total dust 1
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
United Kingdom	Remark (WEL)	(fume)
<b>Cadmium (7440-43-9)</b>		
Austria	MAK (mg/m <sup>3</sup> )	0.015 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil) (III A2)
Austria	MAK Short time value (mg/m <sup>3</sup> )	0.06 mg/m <sup>3</sup> (einatembare Fraktion) max. 4x15 min./Schicht (III A2)

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<b>Cadmium (7440-43-9)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> C "(particules alvéolaires, en Cd)" 0.01 mg/m <sup>3</sup> C "(particules inhalables, en Cd)"
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup>
Finland	Huomautus (FI)	iho, Cd
Hungary	AK-érték	0.015 mg/m <sup>3</sup>
Hungary	CK-érték	0.06 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> (Cadmium compounds) 0.002 mg/m <sup>3</sup> (Cadmium oxide fume and Cadmium sulphide pigments) 0.025 mg/m <sup>3</sup> C2
Lithuania	IPRV (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> ákvepiamoji frakcija . K; Nustatytos biologinės RV kadmio ir ūvino. 0.01 mg/m <sup>3</sup> alveolinė frakcija (metalinis). K; Nustatytos biologinės RV kadmio ir ūvino. Pliūrek IX skyriaus 3 pastabà.
Poland	NDS (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> (frakcja respirabilna) 0.01 mg/m <sup>3</sup> (pyly i dymy)
Slovakia	NPHV (priemerná) (ppm)	7 µg/l
Slovakia	Upozornenie (SK)	(Kadmium,)
Spain	VLA-ED (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup> C1B ,VLB,r,d "(Fracción inhalable)" 0.002 mg/m <sup>3</sup> C1B,VLB,r,d"(Fracción respirable)"
Spain	VLA-ED (ppm)	5 µg/g creatinine F "(Cadmio en orina; No crítico 3)"
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.005 mg/m <sup>3</sup> respirabelt damm 0.02 mg/m <sup>3</sup> totaldamm; C, M 12 (as Cd)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
United Kingdom	Remark (WEL)	Carc, cadmium metal, cadmium chloride, fluoride and sulphate)
Norway	Grænseverdier (AN) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Norway	Merknader (NO)	K // Kadmium og uorg. Kadmiumforb. (unntatt Kadmiumoksid) (beregnet som Cd)
Switzerland	VME (ppm)	5 µg/g Cadmium, Urin, a
<b>Lead (7439-92-1)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
EU	Notes	inhalable aerosol
Belgium	Remark (BE)	(poussières et fumées) (en Pb)
Denmark	Grænseværdie (langvarig) (ppm)	20 µg Pb/100 ml blood Biologisk eksponeringsværdi
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Kaikki työt
Finland	HTP-arvo (8h) (ppm)	1.4 µmol/l (Veren lyijy, Vuorokaudenajalla ei merkitystä)
France	VME (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
France	Note (FR)	Limite pondérale définie plomb métal (Pb)
Germany	TRGS 903 (BGW)	400 µg/l (Blei im Blut) 300 µg/l (Blei im Blut; Frauen < 45 Jahre)
Hungary	CK-érték	0.6 mg/m <sup>3</sup> inhalable aerosol 0.2 mg/m <sup>3</sup> respirable aerosol
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>

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<b>Lead (7439-92-1)</b>		
Lithuania	IPRV (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup> ákvepiamoji frakcija . R; Nustatytos biologinės RV ūvino ir kadmio. Planuojant naujus objektus ar keičiant senus, reikia stengtis ūptikrinti, kad ūvino ir jo neorganiniū junginiū poveikis per darbo dienà būtū priimtinas laikantis IPRV 0,05 mg/m <sup>3</sup> koncentracijos, nepaisant daleliū dydþio. Tai netaikoma ūvino sulfidui. Ūvinas nėra klasifikuojamas kaip reprodukcijos sutrikimū sukëlëjas. 0.07 mg/m <sup>3</sup> alveolinë frakcija (metalinis) . R; Nustatytos biologinės RV ūvino ir kadmio. Planuojant naujus objektus ar keičiant senus, reikia stengtis ūptikrinti, kad ūvino ir jo neorganiniū junginiū poveikis per darbo dienà būtū priimtinas laikantis IPRV 0,05 mg/m <sup>3</sup> koncentracijos, nepaisant daleliū dydþio. Tai netaikoma ūvino sulfidui. Ūvinas nėra klasifikuojamas kaip reprodukcijos sutrikimū sukëlëjas. Ðiūrëk IX skyriaus 3 pastabà.
Slovakia	NPHV (priemernà) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> (inhalovatelnà frakcia) 0.05 mg/m <sup>3</sup> (Olovo a jeho organické zlúčeniny) 0.15 mg/m <sup>3</sup> (respirabilná frakcia)
Slovakia	NPHV (priemernà) (ppm)	400 µg/l (Olovo) 100 µg/l (Olovo) 25 µg/l (?-Aminolevulová kyselina) 6 µg/l (?-Aminolevulová kyselina) 0.3 µg/l (Koproporfyrín)
Spain	VLA-ED (ppm)	70 µg/dl k "(Plomo en sangre; No crítico 3)"
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (inhalerbart damm, B,R,M, 2,13) 0.05 mg/m <sup>3</sup> (respirabelt damm, B,R,M,2,13)
Norway	Grønseverdier (AN) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Norway	Merknader (NO)	(Bly og uorg. Blylforb. (beregnet som Pb), støv og røyk)
Switzerland	VME (ppm)	400 µg/l (sangue; nessuna restrizione) 100 µg/l (sangue; nessuna restrizione) Frauen < 45 Jahre)
<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>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 (priemernà) (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
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	: Eyewash stations. Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves. EN374.
Eye protection	: Chemical goggles or safety glasses. EN166.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Wear appropriate mask. EN 12083.
Other information	: Do not eat, drink or smoke when using this product.



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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: white.
Odour	: Oily.
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	: 204 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
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	: 0 %
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat.

#### 10.5. Incompatible materials

Oxidizer.

#### 10.6. Hazardous decomposition products

Aldehydes.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity** : Not classified

Aluminum oxide (1344-28-1)	
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
limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg
ATE CLP (oral)	6450.000 mg/kg bodyweight



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<b>zinc oxide (1314-13-2)</b>	
LD50 oral rat	> 5000 mg/kg no adverse signs of toxicity
LC50 inhalation rat (mg/l)	> 5700 mg/l/4h no adverse effects noted
<b>Cadmium (7440-43-9)</b>	
ATE CLP (dust,mist)	0.050 mg/l/4h
<b>Lead (7439-92-1)</b>	
ATE CLP (oral)	500.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 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>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
LD50 oral rat	3129 (1750 - 5000) mg/l
LD50 dermal rat	> 2000 mg/kg
<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

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

<b>Aluminum oxide (1344-28-1)</b>	
EC50 Daphnia 1	> 1470 mg/l
NOEC (acute)	> 50 mg/l
<b>limestone (1317-65-3)</b>	
LC50 fish 1	> 200 mg/l
<b>zinc oxide (1314-13-2)</b>	
LC50 fish 1	1.793 mg/l 96 hr. Danio rerio
EC50 Daphnia 1	1.7 (1.7 - 9) mg/l OECD Guideline 202
LC50 fish 2	0.169 (0.169 - 2.17) mg/l ASTM
NOEC chronic fish	0.199 mg/l OECD Guideline 215 (Fish, Juvenile Growth Test)
NOEC chronic crustacea	0.019 mg/l 9 day
NOEC chronic algae	0.024 mg/l
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
LC50 fish 1	275 mg/l 96 h
EC50 Daphnia 1	0.441 mg/l 48 h
LOEC (chronic)	0.43 mg/l 34 days read-across cobalt dichloride
NOEC (chronic)	0.21 mg/l 34 days read-across cobalt dichloride

### 12.2. Persistence and degradability

<b>Lacquer Stik® White</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

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<b>limestone (1317-65-3)</b>	
Persistence and degradability	Not readily biodegradable.

<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>limestone (1317-65-3)</b>	
Bioaccumulative potential	Does not bioaccumulate significantly.

<b>zinc oxide (1314-13-2)</b>	
Bioaccumulative potential	Not expected to bioaccumulate.

<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
Log Pow	3.16 - 7.15

<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
BCF fish 1	2300 (2300 - 3900)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

<b>Lacquer Stik® White</b>	
PBT: not yet assessed	
vPvB: not yet assessed	

### 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.
Ecology - waste materials	: Avoid release to the environment.
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. H14 - 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR)	: 3077
UN-No. (IATA)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (ADN)	: 3077

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide), 9, III, (E)

### 14.3. Transport hazard class(es)

Class (ADR)	: 9
Classification code (ADR)	: M7
Class (IATA)	: 9
Class (IMDG)	: 9
Class (ADN)	: 9

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Classification code (ADN) : M7

### 14.4. Packing group

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

### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90  
Classification code (ADR) : M7  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2Z

#### 14.6.2. Transport by sea

EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
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  $\geq 0,1\%$  / SCL

Contains no REACH Annex XIV substances

VOC content : 0 %

#### 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

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	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

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. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
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 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
Skin Sens. 1A	Sensitisation — Skin, category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R26	Very toxic by inhalation
R43	May cause sensitisation by skin contact
R45	May cause cancer
R46	May cause heritable genetic damage
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

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R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R68	Possible risk of irreversible effects
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xn	Harmful

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

Skin Sens. 1	H317	Calculation method
Repr. 2	H361	Expert judgment
Aquatic Chronic 2	H411	Expert judgment

LA-CO EU CLP SDS

**SDS Prepared by:** The Redstone Group, LLC  
6077 Frantz Rd.  
Suite 206  
Dublin, OH USA 43016  
T 614-923-7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

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