

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

Product form : Mixture  
 Product name : Lacquer Stik® Black, Red, Silver, Yellow

**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<br>National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"   | 21 Tottleben Boulevard 1606 SOFIA                          | +359 2 9154 409                    |
| CROATIA         | Poisons Control Centre<br>Institute of Medical Research & Occupational Health  | Ksaverska Cesta 2<br>P.O. Box 291<br>HR-10000 Zagreb       | +385 1 234 8342                    |
| CZECH REPUBLIC  | Toxikologické informační středisko<br>Clinic For Occupational Medicine, 1st Medical Faculty, Charles University  | Na Bojišti 1<br>120 00 Praha 2                             | +42 2 2491 9293<br>+42 2 2491 5402 |
| DENMARK         | Gifflinjen<br>Bispebjerg Hospital  | Bispebjerg Bakke 23, 60, 1<br>DK-2400 København NV         | +45 82 12 12 12<br>+45 35 31 55 55 |
| ESTONIA         | Mürgistusteabekeskus   | Gonsiori 29 15027 Tallinn                                  | +372 626 93 90                     |
| FINLAND         | Myrkytystietokeskus  | P.O.B 340 (Haartmaninkatu 4)<br>HUS<br>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)<br>Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service) | 1437 Budapest PO Box 839<br>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<br>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<br>National Institute for Public Health and the Environment, NB this service is only available to health professionals | Huispostnummer B.00.118, PO Box 85500<br>3508 GA Utrecht             | +31 30 274 88 88  |
| PORTUGAL    | Centro de Informação Antivenenos<br>Instituto Nacional de Emergência Médica (INEM)   | Rua Almirante Barroso, 36<br>1000-013 Lisboa                         | 808 250 143 (for use only in Portugal),<br>+351 21 330 3284 |
| ROMANIA     | Biroul pentru Regulamentul Sanitar International si Informare Toxicologica   | Str. Dr. Leonte Anastasievici Nr.1-3,<br>Sector 5<br>50463 Bucuresti | +40 21 318 36 06  |
| SLOVAKIA    | Národné toxikologické informačné centrum<br>University Hospital Bratislava   | Limbová 5<br>833 05 Bratislava                                       | +421 2 54 77 4 166  |
| SPAIN       | Servicio de Información Toxicológica<br>Instituto Nacional de Toxicología, Departamento de Madrid  | Calle Luis Cabrera 9<br>E-28002 Madrid                               | +34 91 562 04 20  |
| SWEDEN      | Giftinformationscentralen<br>Swedish Poisons Information Centre, Karolinska Hospital   | Box 60 500<br>SE-171 76 Stockholm                                    | +46 8 33 12 31<br>(International) 112 (National)            |
| SWITZERLAND | Centre Suisse d'Information Toxicologique  | Freiestrasse 16 Postfach CH-8028 Zurich                              | +41 44 251 51 51<br>(International) 145 (National)          |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

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

No additional information available

### 2.2. Label elements

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

EUH-statements

: EUH208 - Contains rosin(8050-09-7), 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)(2786-76-7). May produce an allergic reaction  
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. 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] |
|---|---|--------|---|
| limestone   | (CAS No) 1317-65-3<br>(EC no) 215-279-6                               | 0 – 50 | Not classified  |
| aluminium powder (pyrophoric)   | (CAS No) 7429-90-5<br>(EC no) 231-072-3<br>(EC index no) 013-001-00-6 | 0 – 25 | Pyr. Sol. 1, H250<br>Water-react. 2, H261                       |
| Paraffin waxes and Hydrocarbon waxes, microcryst  | (CAS No) 63231-60-7<br>(EC no) 264-038-1                              | 0 – 15 | Not classified  |
| Carbon black  | (CAS No) 1333-86-4<br>(EC no) 215-609-9                               | 0 – 15 | Carc. 2, H351   |
| titanium dioxide  | (CAS No) 13463-67-7<br>(EC no) 236-675-5                              | 0 – 6  | Not classified  |
| rosin   | (CAS No) 8050-09-7<br>(EC no) 232-475-7<br>(EC index no) 650-015-00-7 | 1 – 5  | Skin Sens. 1, H317  |
| 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) | (CAS No) 2786-76-7<br>(EC no) 220-509-3                               | 0 – 3  | Skin Sens. 1, H317  |

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| Name               | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--------------------|--|-------|--|
| Aluminum hydroxide | (CAS No) 21645-51-2<br>(EC no) 244-492-7                               | 0 – 1 | Not classified   |
| Aluminum oxide     | (CAS No) 1344-28-1<br>(EC no) 215-691-6                                | < 0.1 | Not classified   |
| nickel dihydroxide | (CAS No) 12054-48-7<br>(EC no) 235-008-5<br>(EC index no) 028-008-00-X | < 0.1 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 1A, H350i<br>Repr. 1B, H360D<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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 skin with plenty of water.
- 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 after inhalation : May cause respiratory irritation.
- 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.

#### 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.

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### 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 contact with skin and eyes.  
Hygiene measures : 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

| nickel dihydroxide (12054-48-7) |   |   |
|---------------------------------|---|---|
| Finland                         | Huomautus (FI)  | Ni  |
| Spain                           | Notes   | C1  |
| rosin (8050-09-7)               |   |   |
| Ireland                         | OEL (8 hours ref) (mg/m <sup>3</sup> )                          | 0.05 mg/m <sup>3</sup>  |
| Ireland                         | OEL (15 min ref) (mg/m <sup>3</sup> )                           | 0.15 mg/m <sup>3</sup>  |
| Ireland                         | Notes (IE)  | (Sen)   |
| Carbon black (1333-86-4)        |   |   |
| Belgium                         | Limit value (mg/m <sup>3</sup> )                                | 3.5 mg/m <sup>3</sup>   |
| Denmark                         | Grænseværdie (langvarig) (mg/m <sup>3</sup> )                   | 3.5 mg/m <sup>3</sup>   |
| Denmark                         | Anmærkninger (DK)   | K   |
| Finland                         | HTP-arvo (8h) (mg/m <sup>3</sup> )                              | 3.5 mg/m <sup>3</sup>   |
| Finland                         | HTP-arvo (15 min)   | 7 mg/m <sup>3</sup>   |
| France                          | VME (mg/m <sup>3</sup> )  | 3.5 mg/m <sup>3</sup>   |
| Ireland                         | OEL (8 hours ref) (mg/m <sup>3</sup> )                          | 3.5 mg/m <sup>3</sup>   |
| Ireland                         | OEL (15 min ref) (mg/m <sup>3</sup> )                           | 7 mg/m <sup>3</sup>   |
| Spain                           | VLA-ED (mg/m <sup>3</sup> )                                     | 3.5 mg/m <sup>3</sup>   |
| Sweden                          | nivågränsvärde (NVG) (mg/m <sup>3</sup> )                       | 3 mg/m <sup>3</sup>   |
| United Kingdom                  | Local name  | Carbon black  |
| United Kingdom                  | WEL TWA (mg/m <sup>3</sup> )                                    | 3.5 mg/m <sup>3</sup>   |
| United Kingdom                  | WEL STEL (mg/m <sup>3</sup> )                                   | 7 mg/m <sup>3</sup>   |
| Norway                          | Grenseverdier (AN) (mg/m <sup>3</sup> )                         | 3.5 mg/m <sup>3</sup>   |
| Aluminum oxide (1344-28-1)      |   |   |
| Austria                         | MAK (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup> (gemessen als einatembarer Aerosolanteil)<br>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)<br>max. 2x60 min./Schicht<br>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)<br>2 mg/m <sup>3</sup> (respirabel)   |
| Denmark                         | Grænseværdie (kortvarig) (mg/m <sup>3</sup> )                   | 10 mg/m <sup>3</sup> (total)<br>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>   |

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| <b>Aluminum oxide (1344-28-1)</b>      |   |   |
|--|---|---|
| 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)<br>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)<br>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)<br>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)<br>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)<br>4 mg/m <sup>3</sup> (respirable aerosol)  |
| Norway                                 | Grønseverdier (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)<br>5 ppm (alveolengängiger Anteil)   |
| Austria                                | MAK Short time value (ppm)                    | 20 ppm (gemessen als einatembarer Aerosolanteil)<br>max. 2x60 min./Schicht<br>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<br>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)<br>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>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<br>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   |
| 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<br>4 mg/m <sup>3</sup> respirable aerosol  |
| Switzerland                            | Remark (CH)                                   | (respirable aerosol)  |
| <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<br>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)<br>4 mg/m <sup>3</sup> (respirable dust)  |
| Switzerland                            | Remark (CH)                                   | (respirable aerosol)  |

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| aluminium powder (pyrophoric) (7429-90-5) |   |  |
|---|---|--|
| Belgium                                   | Limit value (mg/m <sup>3</sup> )              | 1 mg/m <sup>3</sup>  |
| Belgium                                   | Remark (BE)                                   | (Aluminium, métal et composés insolubles, fraction alvéolaire)   |
| Denmark                                   | Grænseværdie (kortvarig) (mg/m <sup>3</sup> ) | 4 mg/m <sup>3</sup> (respirabel)<br>10 mg/m <sup>3</sup> (total)   |
| Finland                                   | HTP-arvo (8h) (mg/m <sup>3</sup> )            | 2 mg/m <sup>3</sup>  |
| Finland                                   | Huomautus (FI)                                | (Alumiini, liukoiset yhdisteet)  |
| France                                    | VME (mg/m <sup>3</sup> )                      | 5 mg/m <sup>3</sup> (pulvérulent)<br>10 mg/m <sup>3</sup> (metal)  |
| Germany                                   | TRGS 903 (BGW)                                | 200 µg/l   |
| Germany                                   | Remark (TRGS 903)                             | Aluminium (Urin; Expositionsende bzw. Schichtende)   |
| Hungary                                   | Megjegyzések (HU)                             | (respirábilis por)   |
| Ireland                                   | OEL (8 hours ref) (mg/m <sup>3</sup> )        | 1 mg/m <sup>3</sup>  |
| Ireland                                   | Notes (IE)                                    | (respirable dust)  |
| Lithuania                                 | IPRV (mg/m <sup>3</sup> )                     | 2 mg/m <sup>3</sup> (alveoline frakcija)<br>1 mg/m <sup>3</sup> (Aliuminis (metalas) ir jo tirpus junginiai, kaip Al)<br>5 mg/m <sup>3</sup> (ákvepiamoji frakcija ) |
| Netherlands                               | Grenswaarde TGG 8H (mg/m <sup>3</sup> )       | 10 mg/m <sup>3</sup>   |
| Poland                                    | NDS (mg/m <sup>3</sup> )                      | 2.5 mg/m <sup>3</sup> (dymy, pyl calkowity)<br>1.2 mg/m <sup>3</sup> (dymy, pyl respirabilny)  |
| Slovakia                                  | NPHV (priemerná) (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup>  |
| Slovakia                                  | NPHV (priemerná) (ppm)                        | 60 µg/g creatinine (Hlinik, M,a)<br>25 µg/g creatinine (Celkový, M,,d)<br>150 µg/g creatinine (Celkový,M,b)  |
| Spain                                     | VLA-ED (mg/m <sup>3</sup> )                   | 10 mg/m <sup>3</sup> (inhalable aerosol)<br>5 mg/m <sup>3</sup> (respirable aerosol)   |
| Sweden                                    | nivågränsvärde (NVG) (mg/m <sup>3</sup> )     | 1 mg/m <sup>3</sup> (Aluminium, lösliga föreningar, som Al)<br>5 mg/m <sup>3</sup> (totaldamm, som Al)<br>2 mg/m <sup>3</sup> (respirabelt damm, som Al)             |
| United Kingdom                            | WEL TWA (mg/m <sup>3</sup> )                  | 10 mg/m <sup>3</sup> (inhalable dust)<br>4 mg/m <sup>3</sup> (respirable dust)   |
| Norway                                    | Merknader (NO)                                | (Aluminiumpulver, pyroteknikk)   |
| Switzerland                               | VME (mg/m <sup>3</sup> )                      | 3 mg/m <sup>3</sup>  |
| Switzerland                               | Remark (CH)                                   | (alveolengängiger Staub)   |

### 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                  | : In case of repeated or prolonged contact wear 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.   |

## 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                                      | : Variable.                   |
| Odour                                       | : Oily.                       |
| Odour threshold                             | : No data available           |
| pH  | : No data available           |
| Relative evaporation rate (butyl acetate=1) | : No data available           |
| Melting point                               | : 66 °C                       |
| Freezing point                              | : No data available           |
| Boiling point                               | : No data available           |
| Flash point                                 | : 204 °C                      |

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|                                  |                       |
|----------------------------------|-----------------------|
| 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 %

## 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

| <b>nickel dihydroxide (12054-48-7)</b>  |  |
|---|--|
| LD50 oral rat   | 1515 mg/kg   |
| LD50 dermal rat   | > 2 g/kg   |
| LC50 inhalation rat (mg/l)  | 1200 mg/m <sup>3</sup> 4 h                         |
| ATE CLP (oral)  | 1515.000 mg/kg bodyweight                          |
| ATE CLP (dust,mist)   | 1.500 mg/l/4h                                      |
| <b>rosin (8050-09-7)</b>  |  |
| LD50 oral rat   | 2800 mg/kg   |
| LD50 dermal rat   | > 2000 mg/kg No mortality observed                 |
| ATE CLP (oral)  | 2800.000 mg/kg bodyweight                          |
| <b>Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)</b>  |  |
| LD50 oral rat   | > 5000 mg/kg Sprague-Dawley, no mortality observed |
| LD50 dermal rat   | > 2000 mg/kg Sprague-Dawley, no mortality observed |
| <b>Carbon black (1333-86-4)</b>   |  |
| LD50 oral rat   | > 8000 mg/kg                                       |
| LC50 inhalation rat (mg/l)  | > 4.6 mg/m <sup>3</sup> 4 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  |

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| Aluminum oxide (1344-28-1) |               |
|----------------------------|---------------|
| ATE CLP (vapours)          | 7.600 mg/l/4h |
| ATE CLP (dust,mist)        | 7.600 mg/l/4h |

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

| limestone (1317-65-3) |                           |
|-----------------------|---------------------------|
| LD50 oral rat         | 6450 mg/kg                |
| ATE CLP (oral)        | 6450.000 mg/kg bodyweight |

| aluminium powder (pyrophoric) (7429-90-5) |                          |
|---|--------------------------|
| LD50 oral rat                             | > 15900 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 10 mg/l/4h             |

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | : Not classified   |
| <b>Serious eye damage/irritation</b>     | : Not classified   |
| <b>Respiratory or skin sensitisation</b> | : Not classified. (No sensitizing reaction was observed for guinea pigs) |
| <b>Germ cell mutagenicity</b>            | : Not classified   |
| <b>Carcinogenicity</b>                   | : Not classified.  |

| nickel dihydroxide (12054-48-7)               |  |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years)   | 2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate |
| NOAEL (chronic, oral, animal/female, 2 years) | 2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate |

| Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7) |   |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years)                   | 5700 mg/kg bodyweight Sprague-Dawley, no mortality observed |
| NOAEL (chronic, oral, animal/female, 2 years)                 | 5700 mg/kg bodyweight Sprague-Dawley, no mortality observed |

| titanium dioxide (13463-67-7)               |                        |
|---|------------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 5 mg/kg bodyweight rat |

|   |                  |
|---|------------------|
| <b>Reproductive toxicity</b>                              | : Not classified |
| <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

| nickel dihydroxide (12054-48-7) |                 |
|---------------------------------|-----------------|
| LC50 fish 1                     | 15.3 mg/l 96 h  |
| EC50 Daphnia 1                  | > 200 µg/l 48 h |

| rosin (8050-09-7) |                |
|-------------------|----------------|
| LC50 fish 1       | < 10 mg/l 96 h |
| EC50 Daphnia 1    | 911 mg/l 48 h  |

| Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7) |                                       |
|---|---------------------------------------|
| LC50 fish 1   | > 1000 mg/l 96 h, Oncorhynchus mykiss |
| EC50 Daphnia 1  | > 1000 mg/l 48 h,                     |

| 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7) |                 |
|---|-----------------|
| LC50 fish 1   | > 500 mg/l 96 h |
| EC50 Daphnia 1  | > 110 mg/l 48 h |

| Aluminum oxide (1344-28-1) |             |
|----------------------------|-------------|
| EC50 Daphnia 1             | > 1470 mg/l |
| NOEC (acute)               | > 50 mg/l   |

| limestone (1317-65-3) |            |
|-----------------------|------------|
| LC50 fish 1           | > 200 mg/l |

### 12.2. Persistence and degradability

| nickel dihydroxide (12054-48-7) |                            |
|---------------------------------|----------------------------|
| Persistence and degradability   | Not readily biodegradable. |



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|   |                            |
|---|----------------------------|
| <b>rosin (8050-09-7)</b>  |                            |
| Biodegradation  | 71 % 28 d                  |
| <b>Paraffin waxes and Hydrocarbon waxes, microcryst (63231-60-7)</b>  |                            |
| Persistence and degradability   | inherently biodegradable.  |
| <b>Carbon black (1333-86-4)</b>   |                            |
| Persistence and degradability   | Not readily biodegradable. |
| <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>limestone (1317-65-3)</b>  |                            |
| Persistence and degradability   | Not readily biodegradable. |

### 12.3. Bioaccumulative potential

|   |   |
|---|---|
| <b>nickel dihydroxide (12054-48-7)</b>  |   |
| BCF fish 1  | 600 - 26500 whole body d.w.; 0 to 26 day exposure |
| <b>rosin (8050-09-7)</b>  |   |
| Log Pow   | 3 (3 - 6.2)                                       |
| <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>limestone (1317-65-3)</b>  |   |
| Bioaccumulative potential   | Does not biaccumulate significantly.              |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

|   |  |
|---|--|
| <b>Lacquer Stik® Black, Red, Silver, Yellow</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. |

## SECTION 14: Transport information

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

### 14.1. UN number

Not considered a dangerous good for transport regulations

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) :

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

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### 14.6.2. Transport by sea

No additional information available

### 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 : 0 %

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 3 - severe hazard to waters

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

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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 Weighted 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. 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 |
| Carc. 1A                            | Carcinogenicity (inhalation) Category 1A                          |
| Carc. 2                             | Carcinogenicity, Category 2                                       |
| Muta. 2                             | Germ cell mutagenicity, Category 2                                |

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|                |   |
|----------------|---|
| Pyr. Sol. 1    | Pyrophoric Solids, Category 1   |
| Repr. 1B       | Reproductive toxicity, Category 1B  |
| Resp. Sens. 1  | Sensitisation — Respiratory, category 1   |
| 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                                  |
| Water-react. 2 | Substances and Mixtures which, in contact with water, emit flammable gases, Category 2          |
| H250           | Catches fire spontaneously if exposed to air  |
| H261           | In contact with water releases flammable gases  |
| H302           | Harmful if swallowed  |
| H315           | Causes skin irritation  |
| H317           | May cause an allergic skin reaction   |
| H332           | Harmful if inhaled  |
| H334           | May cause allergy or asthma symptoms or breathing difficulties if inhaled                       |
| H341           | Suspected of causing genetic defects  |
| H350i          | May cause cancer by inhalation  |
| H351           | Suspected of causing cancer   |
| H360D          | May damage the unborn child   |
| 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  |
| EUH208         | Contains . May produce an allergic reaction   |
| EUH210         | Safety data sheet available on request  |
| R15            | Contact with water liberates extremely flammable gases  |
| R17            | Spontaneously flammable in air  |
| R20/22         | Harmful by inhalation and if swallowed  |
| R38            | Irritating to skin  |
| R40            | Limited evidence of a carcinogenic effect   |
| R42            | May cause sensitization by inhalation   |
| R43            | May cause sensitisation by skin contact   |
| R48/23         | Toxic: danger of serious damage to health by prolonged exposure through inhalation              |
| R49            | May cause cancer by inhalation  |
| R50/53         | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R61            | May cause harm to the unborn child  |
| R68            | Possible risk of irreversible effects   |
| F              | Highly flammable  |
| N              | Dangerous for the environment   |
| T              | Toxic   |
| Xi             | Irritant  |
| Xn             | Harmful   |

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*