

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

Product form : Mixture  
Trade name : LUMBER CRAYON 200  
Synonyms : LUMBER CRAYON 200 - Black, Blue, Green, Orange, Purple, Red, White, 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 : 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<br>Geurtel 18-20 1090 Wien | +43 1 406 43 43                    |
| BELARUS         | The Belarus Republican Poisons Centre                                                                                                                                    | Kizhevatova str. 58<br>Minsk 220115                           | +375 (0)17 201 9158                |
| BELGIUM         | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Central de la Base - Reine Astrid                                                                                      | Rue Bruyn 1<br>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<br>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         | Giftlinjen<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<br>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, Nagyváradi tér 2   | +36 80 20 11 99                    |
| ICELAND         | Eitrunarmiðstöðin                                                                                                                                                        | Eitrunarmiðstöðin 108 Reykjavik                               | +354 543 22 22                     |
| IRELAND         | National Poisons Information Centre                                                                                                                                      | Beaumont Hospital PO Box 1297<br>Beaumont Road 9 Dublin       | +353 1 809 2166                    |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

|             |                                                                                                                                                                    |                                                                      |                                                             |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------|
| LATVIA      | Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs                                                                                               | 2 Hipocrate Street LV 1038 Riga                                      | +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<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<br>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

: EUH210 - Safety data sheet available on request  
EUH208 - Contains 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

### 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]      |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------|----------------------------------------------------------------------|
| Wet ground mica                                                                                                             | (CAS No) 12001-26-2<br>(EC no) 310-127-6 | 10 – 30 | Not classified                                                       |
| Titanium dioxide                                                                                                            | (CAS No) 13463-67-7<br>(EC no) 236-675-5 | 0 – 10  | Not classified                                                       |
| barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate]                                                                  | (CAS No) 1103-38-4<br>(EC no) 214-160-6  | 0 – 2   | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Aquatic Chronic 3, H412 |
| Carbon black                                                                                                                | (CAS No) 1333-86-4<br>(EC no) 215-609-9  | 0 – 1   | Carc. 2, H351<br>(bound)                                             |
| 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 – 1   | Skin Sens. 1, H317                                                   |
| Aluminum hydroxide                                                                                                          | (CAS No) 21645-51-2<br>(EC no) 244-492-7 | 0 – 1   | Not classified                                                       |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Name           | Product identifier                      | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------|-----------------------------------------|---------|-----------------------------------------------------------------|
| Aluminum oxide | (CAS No) 1344-28-1<br>(EC no) 215-691-6 | 0 – 0.1 | Not classified                                                  |

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 : No special measures required.

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

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

No special procedures required.

### 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 : 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 : This product is not hazardous.

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

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent dispersion.

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

For containment : Sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

Prohibitions on mixed storage : Keep away from incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Marking.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| 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> |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Carbon black (1333-86-4)     |                                                    |                                                                                                                                           |
|------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Denmark                      | Anmærkninger (DK)                                  | K                                                                                                                                         |
| Finland                      | HTP-arvo (8h) (mg/m³)                              | 3.5 mg/m³                                                                                                                                 |
| Finland                      | HTP-arvo (15 min)                                  | 7 mg/m³                                                                                                                                   |
| France                       | VME (mg/m³)                                        | 3.5 mg/m³                                                                                                                                 |
| Ireland                      | OEL (8 hours ref) (mg/m³)                          | 3.5 mg/m³                                                                                                                                 |
| Ireland                      | OEL (15 min ref) (mg/m³)                           | 7 mg/m³                                                                                                                                   |
| Spain                        | VLA-ED (mg/m³)                                     | 3.5 mg/m³                                                                                                                                 |
| Sweden                       | nivågränsvärde (NVG) (mg/m³)                       | 3 mg/m³                                                                                                                                   |
| United Kingdom               | Local name                                         | Carbon black                                                                                                                              |
| United Kingdom               | WEL TWA (mg/m³)                                    | 3.5 mg/m³                                                                                                                                 |
| United Kingdom               | WEL STEL (mg/m³)                                   | 7 mg/m³                                                                                                                                   |
| Norway                       | Grenseverdier (AN) (mg/m³)                         | 3.5 mg/m³                                                                                                                                 |
| Wet ground mica (12001-26-2) |                                                    |                                                                                                                                           |
| Austria                      | MAK (mg/m³)                                        | 10 mg/m³                                                                                                                                  |
| Austria                      | Remark (AT)                                        | inhalable aerosol                                                                                                                         |
| Belgium                      | Limit value (mg/m³)                                | 3 mg/m³                                                                                                                                   |
| Ireland                      | OEL (8 hours ref) (mg/m³)                          | 10 mg/m³ total inhalable dust<br>0.8 mg/m³ respirable dust                                                                                |
| Spain                        | VLA-ED (mg/m³)                                     | 3 mg/m³                                                                                                                                   |
| Spain                        | Notes                                              | d,e                                                                                                                                       |
| United Kingdom               | WEL TWA (mg/m³)                                    | 10 mg/m³ inhalable aerosol<br>0.8 mg/m³ respirable aerosol                                                                                |
| Norway                       | Grenseverdier (AN) (mg/m³)                         | 6 mg/m³ Glimmer, totalstøv<br>3 mg/m³ Glimmer, respirabelt støv                                                                           |
| Switzerland                  | VME (mg/m³)                                        | 3 mg/m³                                                                                                                                   |
| Switzerland                  | Remark (CH)                                        | (respirable aerosol)                                                                                                                      |
| Aluminum oxide (1344-28-1)   |                                                    |                                                                                                                                           |
| Austria                      | MAK (mg/m³)                                        | 10 mg/m³ (gemessen als einatembarer Aerosolanteil)<br>5 mg/m³ (alveolengängiger Anteil)                                                   |
| Austria                      | MAK Short time value (mg/m³)                       | 20 mg/m³ (gemessen als einatembarer Aerosolanteil)<br>max. 2x60 min./Schicht<br>10 mg/m³ (alveolengängiger Anteil) max. 2x60 min./Schicht |
| Belgium                      | Limit value (mg/m³)                                | 10 mg/m³                                                                                                                                  |
| Belgium                      | Remark (BE)                                        | (oxyde d') (en Al)                                                                                                                        |
| Denmark                      | Grænseværdie (langvarig) (mg/m³)                   | 5 mg/m³ (total)<br>2 mg/m³ (respirabel)                                                                                                   |
| Denmark                      | Grænseværdie (kortvarig) (mg/m³)                   | 10 mg/m³ (total)<br>4 mg/m³ (respirabel)                                                                                                  |
| France                       | VME (mg/m³)                                        | 10 mg/m³                                                                                                                                  |
| France                       | Note (FR)                                          | (respirable aerosol)                                                                                                                      |
| Germany                      | TRGS 900 Occupational exposure limit value (mg/m³) | 3 mg/m³                                                                                                                                   |
| Germany                      | Remark (TRGS 900)                                  | (gemessen als alveolengängiger Staubanteil)                                                                                               |
| Hungary                      | AK-érték                                           | 6 mg/m³                                                                                                                                   |
| Hungary                      | Megjegyzések (HU)                                  | (respirable aerosol)                                                                                                                      |
| Ireland                      | OEL (8 hours ref) (mg/m³)                          | 10 mg/m³ (total inhalable dust)<br>4 mg/m³ (respirable dust)                                                                              |
| Lithuania                    | IPRV (mg/m³)                                       | 2 mg/m³                                                                                                                                   |
| Lithuania                    | Remark (LT)                                        | (alveolinė frakcija. Piūrėk IX skyriaus 3 pastabą.)                                                                                       |
| Poland                       | NDS (mg/m³)                                        | 2.5 mg/m³ (dymy, pyl calkowity)<br>1.2 mg/m³ (dymy, pyl respirabilny)                                                                     |
| Slovakia                     | NPHV (priemerná) (mg/m³)                           | 1.5 mg/m³ (respirabilná frakcia)<br>4 mg/m³ (inhalovate <sup>3</sup> / <sub>4</sub> ná frakcia)                                           |
| Spain                        | VLA-ED (mg/m³)                                     | 10 mg/m³                                                                                                                                  |
| Sweden                       | nivågränsvärde (NVG) (mg/m³)                       | 5 mg/m³ (inhalable aerosol)<br>2 mg/m³ (respirable aerosol)                                                                               |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

| Aluminum oxide (1344-28-1)      |                                                |                                                                                                                                       |
|---------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                  |
| 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)                                                                                                                  |
| Aluminum hydroxide (21645-51-2) |                                                |                                                                                                                                       |
| 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> (inhalovateľná frakcia)                                           |
| Switzerland                     | VME (mg/m <sup>3</sup> )                       | 3 mg/m <sup>3</sup>                                                                                                                   |
| Switzerland                     | Remark (CH)                                    | (alveolengängige Fraktion)                                                                                                            |
| Titanium dioxide (13463-67-7)   |                                                |                                                                                                                                       |
| Belgium                         | Remark (BE)                                    | (dioxyde de)                                                                                                                          |
| Denmark                         | Grænseværdier (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)                                                                                                                  |

### 8.2. Exposure controls

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Appropriate engineering controls | : None known.                                         |
| Hand protection                  | : None under normal use.                              |
| Eye protection                   | : None under normal use.                              |
| Respiratory protection           | : None under normal use.                              |
| Other information                | : Do not eat, drink or smoke when using this product. |

## SECTION 9: Physical and chemical properties

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

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Physical state                              | : Solid                       |
| Appearance                                  | : A solid crayon-like marker. |
| Colour                                      | : Variable.                   |
| Odour                                       | : wax like.                   |
| Odour threshold                             | : No data available           |
| pH                                          | : No data available           |
| Relative evaporation rate (butyl acetate=1) | : No data available           |
| Melting point                               | : 55 °C                       |
| Freezing point                              | : No data available           |
| Boiling point                               | : No data available           |
| Flash point                                 | : 200 °C                      |
| Auto-ignition temperature                   | : 240 °C                      |
| Decomposition temperature                   | : No data available           |
| Flammability (solid, gas)                   | : No data available           |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

|                                  |                       |
|----------------------------------|-----------------------|
| 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

None known.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** : Not classified

| Carbon black (1333-86-4)                                                                                                                |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| LD50 oral rat                                                                                                                           | > 8000 mg/kg                 |
| LC50 inhalation rat (mg/l)                                                                                                              | > 4.6 mg/m <sup>3</sup> 4 h  |
| 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                |
| Titanium dioxide (13463-67-7)                                                                                                           |                              |
| LD50 oral rat                                                                                                                           | > 5000 mg/kg                 |
| LC50 inhalation rat (mg/l)                                                                                                              | > 6.82 mg/l/4h               |
| 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7) |                              |
| LD50 oral rat                                                                                                                           | > 15000 mg/kg                |
| LC50 inhalation rat (mg/l)                                                                                                              | > 1580 mg/m <sup>3</sup> 4 h |
| barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)                                                                  |                              |
| LD50 oral rat                                                                                                                           | > 5000 mg/kg                 |
| LC50 inhalation rat (mg/l)                                                                                                              | 4.13 mg/l/4h                 |
| ATE CLP (vapours)                                                                                                                       | 4.130 mg/l/4h                |
| ATE CLP (dust,mist)                                                                                                                     | 4.130 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             |
| <b>Germ cell mutagenicity</b>                                                                                                           | : Not classified             |
| <b>Carcinogenicity</b>                                                                                                                  | : Not classified             |

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### Titanium dioxide (13463-67-7)

|                                             |                        |
|---------------------------------------------|------------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 5 mg/kg bodyweight rat |
|---------------------------------------------|------------------------|

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aluminum oxide (1344-28-1)

|                |             |
|----------------|-------------|
| EC50 Daphnia 1 | > 1470 mg/l |
|----------------|-------------|

|              |           |
|--------------|-----------|
| NOEC (acute) | > 50 mg/l |
|--------------|-----------|

#### 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 |
|----------------|-----------------|

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

|             |              |
|-------------|--------------|
| LC50 fish 1 | 50 mg/l 48 h |
|-------------|--------------|

|                |                 |
|----------------|-----------------|
| EC50 Daphnia 1 | > 3.8 mg/l 48 h |
|----------------|-----------------|

### 12.2. Persistence and degradability

#### Carbon black (1333-86-4)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

#### 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

|                |          |
|----------------|----------|
| Biodegradation | 0 % 28 d |
|----------------|----------|

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Persistence and degradability | Not readily biodegradable. Product persists. |
|-------------------------------|----------------------------------------------|

### 12.3. Bioaccumulative potential

#### 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

|            |         |
|------------|---------|
| BCF fish 1 | 53 l/kg |
|------------|---------|

|         |      |
|---------|------|
| Log Pow | 1.28 |
|---------|------|

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

|            |                                            |
|------------|--------------------------------------------|
| BCF fish 1 | 1.7 - 1.8 mg/l .3 mg/l conc. in envir/dose |
|------------|--------------------------------------------|

|         |              |
|---------|--------------|
| Log Pow | -0.67 - 1.07 |
|---------|--------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### LUMBER CRAYON 200

|                       |
|-----------------------|
| 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

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

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

### 14.1. UN number

Not considered a dangerous good for transport regulations

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 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

#### 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) : nwg - Non-hazardous to water

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 (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Indication of changes:

Original Document.

Abbreviations and acronyms:

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

# LUMBER CRAYON 200

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

### 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>.  
Kristen 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                                             |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment — Chronic Hazard, Category 3                            |
| Carc. 2                             | Carcinogenicity, Category 2                                                                  |
| Skin Sens. 1                        | Sensitisation — Skin, category 1                                                             |
| H317                                | May cause an allergic skin reaction                                                          |
| H332                                | Harmful if inhaled                                                                           |
| H351                                | Suspected of causing cancer                                                                  |
| H412                                | Harmful to aquatic life with long lasting effects                                            |
| EUH208                              | Contains . May produce an allergic reaction                                                  |
| EUH210                              | Safety data sheet available on request                                                       |
| R20                                 | Harmful by inhalation                                                                        |
| R40                                 | Limited evidence of a carcinogenic effect                                                    |
| R43                                 | May cause sensitisation by skin contact                                                      |
| R52/53                              | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| 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*