LA-CO Industries, Inc.

# PRO-LINE® Fine Line PAINT MARKER Blue, Green, Light Green, Orange, Red, Yellow; PRO-LINE® Microline PAINT MARKER Red, Yellow; PRO-MAX™ PAINT MARKER Blue, Brown, Gray, Orange, Pink, Purple, Red, Yellow, Silver

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 29/07/2015 Revision date: : Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Article

Trade name : PRO-LINE® Fine Line PAINT MARKER Blue, Green, Light Green, Orange, Red, Yellow; PRO-LINE® Microline PAINT MARKER Red, Yellow; PRO-MAX™ PAINT MARKER Blue, Brown, Gray, Orange, Pink, Purple, Red, Yellow, Silver

Synonyms : PRO-LINE® Fine Line PAINT MARKER Blue, Green, Light Green, Orange, Red, Yellow

PRO-LINE® Microline PAINT MARKER Red, Yellow

PRO-MAX™ PAINT MARKER Blue, Brown, Gray, Orange, Pink, Purple, Red, Yellow, Silver

### 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 Geurtel 18-20 1090 Wien | +43 1 406 43 43 |
| BELARUS | The Belarus Republican Poisons Centre | Kizhevatova str. 58 220115 Minsk | +375 (0)17 201 9158 |
| BELGIUM | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1 B -1120 Bruxelles/Brussel | +32 70 245 245 |
| BULGARIA | Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov" | 21 Totleben Boulevard 1606 SOFIA | +359 2 9154 409 |
| CROATIA | Poisons Control Centre Institute of Medical Research & Occupational Health | Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb | +385 1 234 8342 |
| CZECH REPUBLIC | Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University | Na Bojišti 1 120 00 Praha 2 | +42 2 2491 9293 +42 2 2491 5402 |
| DENMARK | Giftlinjen Bispebjerg Hospital | Bispebjerg Bakke 23, 60, 1 DK-2400 København NV | +45 82 12 12 12 +45 35 31 55 55 |
| ESTONIA | Mürgistusteabekeskus | Gonsiori 29 15027 Tallinn | +372 626 93 90 |
| FINLAND | Myrkytystietokeskus | P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki | +358 9 471 977 |
| FRANCE | ORFILA | | +33 1 45 42 59 59 |
| GERMANY | Berliner Betrieb für Zentrale Gesundheitliche Aufgaben | Oranienburger Strasse 285 13437 Berlin | +49 30 19240 |
| GERMANY | Informations und Beratungszentrum für Vergiftungsfälle | Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar | +49 6841 19240 |

| | | | |
|---|---|---|---|
| GERMANY | Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen | Langenbeckstrasse 1 55131 Mainz | +49 6131 19240 |
| GREECE | Poisons Information Centre | 11527 Athens | +30 10 779 3777 |
| HUNGARY | Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety)<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 |
| 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, 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

### 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

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| 1-Methoxy-2-propanol | (CAS No) 107-98-2<br>(EC no) 203-539-1<br>(EC index no) 603-064-00-3 | 50 - 90 | Flam. Liq. 3, H226<br>STOT SE 3, H336 |
| aluminium powder (stabilised) | (CAS No) 7429-90-5<br>(EC no) 231-072-3<br>(EC index no) 013-001-00-1 | 0 - 25 | Flam. Sol. 1, H228<br>Water-react. 2, H261 |
| titanium dioxide | (CAS No) 13463-67-7<br>(EC no) 236-675-5 | 0 - 10 | 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 : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

### 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. Dry chemical. Inert gas. Foam. Water spray. Water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Hydrocarbon.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

## SECTION 6: Accidental release measures

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

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

#### 6.1.1. For non-emergency personnel

Protective equipment : 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 : Stop leak if safe to do so. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Eliminate all ignition sources. Stop the flow of material, if this is without risk.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use only non-sparking tools.

Storage conditions : Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible products : Strong oxidizers.

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)

Marking.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 1-Methoxy-2-propanol (107-98-2) | | |
|---|---|---|
| EU | IOELV TWA (mg/m³) | 375 mg/m³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m³) | 568 mg/m³ |
| EU | IOELV STEL (ppm) | 150 ppm |
| EU | Notes | Skin |
| Austria | MAK (mg/m³) | 187 mg/m³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m³) | 187 mg/m³ |
| Austria | MAK Short time value (ppm) | 50 ppm |
| Austria | Remark (AT) | (gemessen als Momentanwert), (H) |
| Belgium | Limit value (mg/m³) | 375 mg/m³ |
| Belgium | Limit value (ppm) | 100 ppm |
| Belgium | Short time value (mg/m³) | 568 mg/m³ |
| Belgium | Short time value (ppm) | 150 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Expoziční limity (PEL) (mg/m³) | 270 mg/m³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 73.17 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m³) | 550 mg/m³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 149.05 ppm |
| Czech Republic | Remark (CZ) | D |
| Denmark | Grænseværdie (langvarig) (mg/m³) | 185 mg/m³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |

| 1-Methoxy-2-propanol (107-98-2) | | |
|---|---|---|
| Denmark | Grænseværdie (kortvarig) (mg/m³) | 370 mg/m³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Finland | HTP-arvo (8h) (mg/m³) | 370 mg/m³ |
| Finland | HTP-arvo (8h) (ppm) | 100 ppm |
| Finland | HTP-arvo (15 min) | 560 mg/m³ |
| Finland | HTP-arvo (15 min) (ppm) | 150 ppm |
| Finland | Huomautus (FI) | iho |
| France | VME (mg/m³) | 188 mg/m³ |
| France | VME (ppm) | 50 ppm |
| France | VLE (mg/m³) | 375 mg/m³ |
| France | VLE (ppm) | 100 ppm |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Occupational exposure limit value (mg/m³) | 370 mg/m³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m³) | 740 mg/m³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 200 ppm |
| Hungary | AK-érték | 375 mg/m³ |
| Hungary | CK-érték | 568 mg/m³ |
| Ireland | OEL (8 hours ref) (mg/m³) | 375 mg/m³ |
| Ireland | OEL (8 hours ref) (ppm) | 100 ppm |
| Ireland | OEL (15 min ref) (mg/m3) | 568 mg/m³ |
| Ireland | OEL (15 min ref) (ppm) | 150 ppm |
| Lithuania | IPRV (mg/m³) | 190 mg/m³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m³) | 300 mg/m³ |
| Lithuania | TPRV (ppm) | 75 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m³) | 375 mg/m³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m³) | 563 mg/m³ |
| Netherlands | Remark (MAC) | (H) |
| Poland | NDS (mg/m³) | 180 mg/m³ |
| Poland | NDSCh (mg/m³) | 360 mg/m³ |
| Slovakia | NPHV (priemerná) (mg/m³) | 375 mg/m³ |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m³) | 375 mg/m³ |
| Spain | VLA-ED (ppm) | 100 ppm |
| Spain | VLA-EC (mg/m³) | 568 mg/m³ |
| Spain | VLA-EC (ppm) | 150 ppm |
| Spain | Notes | vía dérmica,VLI |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 190 mg/m³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m³) | 300 mg/m³ |
| Sweden | kortidsvärde (KTV) (ppm) | 75 ppm |
| Sweden | Anmärkning (SE) | H |
| United Kingdom | WEL TWA (mg/m³) | 375 mg/m³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m³) | 560 mg/m³ |
| United Kingdom | WEL STEL (ppm) | 150 ppm |

| **1-Methoxy-2-propanol (107-98-2)** | | |
|---|---|---|
| Norway | Grenseverdier (AN) (mg/m³) | 180 mg/m³ |
| Norway | Grenseverdier (AN) (ppm) | 50 ppm |
| Norway | Merknader (NO) | H |
| Switzerland | VME (mg/m³) | 360 mg/m³ |
| Switzerland | VME (ppm) | 100 ppm<br>20 ppm (urina; fine dell'esposizione / del turno) |
| Switzerland | VLE (mg/m³) | 720 mg/m³ |
| Switzerland | VLE (ppm) | 200 ppm |
| **titanium dioxide (13463-67-7)** | | |
| Belgium | Remark (BE) | (dioxyde de) |
| Denmark | Grænseværdie (kortvarig) (mg/m³) | 12 mg/m³ |
| France | Note (FR) | inhalable aerosol |
| Ireland | OEL (8 hours ref) (mg/m³) | 10 mg/m³ total inhalable dust<br>4 mg/m³ respirable dust |
| Slovakia | NPHV (priemerná) (mg/m³) | 5 mg/m³ |
| Spain | VLA-ED (mg/m³) | 10 mg/m³ |
| Spain | Notes | inhalable aerosol |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 5 mg/m³ |
| Sweden | Anmärkning (SE) | total dust, 1 |
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ inhalable aerosol<br>4 mg/m³ respirable aerosol |
| Switzerland | Remark (CH) | (respirable aerosol) |
| **aluminium powder (stabilised) (7429-90-5)** | | |
| Belgium | Limit value (mg/m³) | 1 mg/m³ |
| Belgium | Remark (BE) | (Aluminium, métal et composés insolubles, fraction alvéolaire) |
| Denmark | Grænseværdie (kortvarig) (mg/m³) | 4 mg/m³ (respirabel)<br>10 mg/m³ (total) |
| Finland | HTP-arvo (8h) (mg/m³) | 2 mg/m³ |
| Finland | Huomautus (FI) | (Alumiini, liukoiset yhdisteet) |
| France | VME (mg/m³) | 5 mg/m³ (pulvérulent)<br>10 mg/m³ (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/m³) | 1 mg/m³ |
| Ireland | Notes (IE) | (respirable dust) |
| Lithuania | IPRV (mg/m³) | 2 mg/m³ (alveoline frakcija)<br>1 mg/m³ (Aliuminis (metalas) ir jo tirpus junginiai, kaip Al)<br>5 mg/m³ (ákvepiamoji frakcija ) |
| Netherlands | Grenswaarde TGG 8H (mg/m³) | 10 mg/m³ |
| Poland | NDS (mg/m³) | 2.5 mg/m³ (dymy, pyl calkowity)<br>1.2 mg/m³ (dymy, pyl respirabilny) |
| Slovakia | NPHV (priemerná) (mg/m³) | 2 mg/m³ |
| 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/m³) | 10 mg/m³ (inhalable aerosol)<br>5 mg/m³ (respirable aerosol) |
| Sweden | nivågränsvärde (NVG) (mg/m³) | 1 mg/m³ (Aluminium, lösliga föreningar, som Al)<br>5 mg/m³ (totaldamm, som Al)<br>2 mg/m³ (respirabelt damm, som Al) |

| aluminium powder (stabilised) (7429-90-5) | | |
|---|---|---|
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ (inhalable dust)<br>4 mg/m³ (respirable dust) |
| Norway | Merknader (NO) | (Aluminiumpulver, pyroteknikk) |
| Switzerland | VME (mg/m³) | 3 mg/m³ |
| Switzerland | Remark (CH) | (alveolengängiger Staub) |

**8.2. Exposure controls**

Appropriate engineering controls : Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : None under normal use. It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. rubber. EN 374.

Eye protection : Eye protection should only be necessary where liquid could be splashed or sprayed. EN 166.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 12083.

Other information : Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance : Solid marker containing liquid colored paint.

Colour : Variable.

Odour : Ether.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 120 °C

Flash point : 31 °C

Auto-ignition temperature : > 250 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour

Vapour pressure : 12 mbar @ 20 °C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.9 - 1.3 g/cm³ @ 20 °C

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

**9.2. Other information**

VOC content : < 82 %

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No dangerous reactions known.

**10.2. Chemical stability**

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

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** : Not classified

| 1-Methoxy-2-propanol (107-98-2) | |
|---|---|
| LD50 oral rat | 4016 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| LC50 inhalation rat (ppm) | > 7000 ppm 6 hr |
| ATE CLP (oral) | 4016.000 mg/kg bodyweight |

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

| aluminium powder (stabilised) (7429-90-5) | |
|---|---|
| LD50 oral rat | > 15900 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.3 mg/l/4h No mortality observed in this study. |

**Skin corrosion/irritation** : Not classified

**Serious eye damage/irritation** : Not classified

**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

| 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

| 1-Methoxy-2-propanol (107-98-2) | |
|---|---|
| LC50 fish 1 | 20800 mg/l |
| EC50 Daphnia 1 | 23300 mg/l |
| ErC50 (algae) | > 1000 mg/l |

| aluminium powder (stabilised) (7429-90-5) | |
|---|---|
| LC50 fish 1 | > 218.64 mg/l ASTM 2000; test material: aluminium chloride hexahydrate; Pimephales promelas |
| EC50 Daphnia 1 | 1.4 mg/l OECD Guideline 202; test material: Aluminium hydroxide |
| LOEC (acute) | 72.89 mg/l |
| NOEC (acute) | 37.2 mg/l |

### 12.2. Persistence and degradability

| 1-Methoxy-2-propanol (107-98-2) | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 96 % 28 d |

### 12.3. Bioaccumulative potential

| 1-Methoxy-2-propanol (107-98-2) | |
|---|---|
| Bioaccumulative potential | Not expected to bioaccumulate. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| PRO-LINE® Fine Line PAINT MARKER Blue, Green, Light Green, Orange, Red, Yellow; PRO-LINE® Microline PAINT MARKER Red, Yellow; PRO-MAX™ PAINT MARKER Blue, Brown, Gray, Orange, Pink, Purple, Red, Yellow, Silver |
|---|
| 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.

Additional information : Handle empty containers with care because residual vapours are flammable.

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.
08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00 - wastes from MFSU and removal of paint and varnish
20 01 27* - paint, inks, adhesives and resins containing dangerous substances
08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances

H code : H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.
H3-B - 'Flammable': liquid substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : 1263

UN-No. (IATA) : 1263

UN-No. (IMDG) : 1263

UN-No. (ADN) : 1263

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Paint

Proper Shipping Name (IATA) : Paint

Proper Shipping Name (IMDG) : PAINT

Proper Shipping Name (ADN) : PAINT

Transport document description (ADR) : UN 1263 PAINT, 3, III, (D/E)

### 14.3. Transport hazard class(es)

Class (ADR) : 3

Classification code (ADR) : F1

Class (IATA) : 3

Class (IMDG) : 3

Class (ADN) : 3
Classification code (ADN) : F1

**14.4. Packing group**

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

**14.5. Environmental hazards**

Other information : No supplementary information available.

**14.6. Special precautions for user**

**14.6.1. Overland transport**

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


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

**14.6.2. Transport by sea**

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

**14.6.3. Inland waterway transport**

Carriage prohibited (ADN) : No

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

Not applicable

## SECTION 15: Regulatory information

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

**15.1.1. EU-Regulations**

Contains no substance on the REACH candidate list
VOC content : < 82 %

**15.1.2. National regulations**

**Germany**

Water hazard class (WGK) : 1 - low hazard to waters
WGK remark : Classification based on the components in compliance withVerwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

## SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:
Original Document.

Abbreviations and acronyms:

| | |
|---|---|
| | ATE: Acute Toxicity Estimate |
| | CAS (Chemical Abstracts Service) number |
| | CLP: Classification, Labelling, Packaging. |

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

Data sources : ESIS (European chemincal 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:

| | |
|---|---|
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Flam. Sol. 1 | Flammable solids, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| Water-react. 2 | Substances and Mixtures which, in contact with water, emit flammable gases, Category 2 |
| H226 | Flammable liquid and vapour |
| H228 | Flammable solid |
| H261 | In contact with water releases flammable gases |
| H336 | May cause drowsiness or dizziness |
| EUH210 | Safety data sheet available on request |
| R10 | Flammable |
| R11 | Highly flammable |
| R15 | Contact with water liberates extremely flammable gases |
| R67 | Vapours may cause drowsiness and dizziness |
| F | Highly flammable |

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*