

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 13/04/2015

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
 Product name : Quik Stik® Mini Twist Paint Marker White, Yellow, Red

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.
 Parc Industriel de la Plaine de
 l'Ain - Allée des Combès.
 01150.BLYES.France.
 Phone: +33 (0)4 74 46 23 23
 Fax: +33 (0)4 74 46 23 29
 E-mail: info@eu.laco.com
 Web: http://www.markal.com



1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

| EU Member State | Officieel adviesorgaan | Adres | Noodnummer |
|-----------------|--|--|------------------------------------|
| AUSTRIA | Vergiftungsinformationszentrale (Poisons Information Centre) | Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien | +43 1 406 43 43 |
| BELARUS | The Belarus Republican Poisons Centre | Kizhevatova str. 58 220115 Minsk | +375 (0)17 201 9158 |
| BELGIUM | Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1 B -1120 Bruxelles/Brussel | +32 70 245 245 |
| BULGARIA | Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov" | 21 Tottleben Boulevard 1606 SOFIA | +359 2 9154 409 |
| CROATIA | Poisons Control Centre Institute of Medical Research & Occupational Health | Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb | +385 1 234 8342 |
| CZECH REPUBLIC | Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University | Na Bojišti 1 120 00 Praha 2 | +42 2 2491 9293 +42 2 2491 5402 |
| DENMARK | Giftninjen Bispebjerg Hospital | Bispebjerg Bakke 23, 60, 1 DK-2400 København NV | +45 82 12 12 12 +45 35 31 55 55 |
| ESTONIA | Mürgistusteabekeskus | Gonsiori 29 15027 Tallinn | +372 626 93 90 |
| FINLAND | Myrkytystietokeskus | P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki | +358 9 471 977 |
| FRANCE | ORFILA | | +33 1 45 42 59 59 |
| GERMANY | Berliner Betrieb für Zentrale Gesundheitliche Aufgaben | Oranienburger Strasse 285 13437 Berlin | +49 30 19240 |
| GERMANY | Informations und Beratungszentrum für Vergiftungsfälle | Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar | +49 6841 19240 |
| GERMANY | Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen | Langenbeckstrasse 1 55131 Mainz | +49 6131 19240 |
| GREECE | Poisons Information Centre | 11527 Athens | +30 10 779 3777 |
| HUNGARY | Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service) | 1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2 | +36 80 20 11 99 |
| ICELAND | Eitrunarmiðstöðin | Eitrunarmiðstöðin 108 Reykjavik | +354 543 22 22 |
| IRELAND | National Poisons Information Centre | Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2166 |

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| | | | |
|-------------|--|--|---|
| 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 National Institute for Public Health and the Environment, NB this service is only available to health professionals | Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht | +31 30 274 88 88 |
| PORTUGAL | Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM) | Rua Almirante Barroso, 36 1000-013 Lisboa | 808 250 143 (for use only in Portugal), +351 21 330 3284 |
| ROMANIA | Biroul pentru Regulamentul Sanitar International si Informare Toxicologica | Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti | +40 21 318 36 06 |
| SLOVAKIA | Národné toxikologické informačné centrum University Hospital Bratislava | Limbová 5 833 05 Bratislava | +421 2 54 77 4 166 |
| SPAIN | Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid | Calle Luis Cabrera 9 E-28002 Madrid | +34 91 562 04 20 |
| SWEDEN | Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital | Box 60 500 SE-171 76 Stockholm | +46 8 33 12 31 (International) 112 (National) |
| SWITZERLAND | Centre Suisse d'Information Toxicologique | Freiestrasse 16 Postfach CH-8028 Zurich | +41 44 251 51 51 (International) 145 (National) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------|--|
| (2-Methoxymethylethoxy)-propanol | (CAS No) 34590-94-8 (EC no) 252-104-2 | 25 – 35 | Not classified |
| Titanium dioxide | (CAS No) 13463-67-7 (EC no) 236-675-5 | 10 – 30 | Not classified |
| ethyl 3-ethoxypropionate | (CAS No) 763-69-9 (EC no) 212-112-9 | 10 – 20 | Flam. Liq. 3, H226 |
| Vinyl acetal polymers, butyrals | (CAS No) 63148-65-2 (EC no) *613-158-6 | 10 – 20 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate | (CAS No) 9014-85-1 (EC no) 500-022-5 | 0.5 – 2 | Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Benzotriazole | (CAS No) 95-14-7 (EC no) 202-394-1 | 0 – 1 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

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 specific fire or explosion hazard.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

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.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid creating or spreading dust. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves. Chemical goggles or safety glasses.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust. Contain and collect as any solid.
Methods for cleaning up : Minimize generation of dust. On land, sweep or shovel into suitable containers.

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

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place.
Incompatible products : Strong acids. strong oxidizers. Strong bases.
Prohibitions on mixed storage : Incompatible materials.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| (2-Methoxymethylethoxy)-propanol (34590-94-8) | | |
|--|--|--|
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 600 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Finland | Huomautus (FI) | iho |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 310 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 50 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 308 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | Upozornenie (SK) | poznámka K |
| Spain | VLA-ED (mg/m ³) | 308 mg/m ³ |
| Spain | VLA-ED (ppm) | 50 ppm |
| Spain | Notes | vía dérmica, VLI |
| Sweden | Anmärkning (SE) | H |
| ethyl 3-ethoxypropionate (763-69-9) | | |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 610 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 100 ppm |
| Titanium dioxide (13463-67-7) | | |
| Belgium | Remark (BE) | (dioxyde de) |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 12 mg/m ³ |
| France | Note (FR) | inhalable aerosol |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust |
| Slovakia | NPHV (priemerná) (mg/m ³) | 5 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Notes | inhalable aerosol |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 5 mg/m ³ |
| Sweden | Anmärkning (SE) | total dust, 1 |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| Switzerland | Remark (CH) | (respirable aerosol) |

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required.
Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear suitable gloves. Dust impervious gloves. EN 374.

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| | |
|------------------------|---|
| Eye protection | : Chemical goggles or safety glasses. EN 166. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------------------------|
| Physical state | : Solid |
| Appearance | : A solid crayon-like marker. waxy. |
| Colour | : Variable. |
| Odour | : Solvent. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : 110 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| 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 |
| Density | : 1 g/ml |
| 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 | : 46 - 54 % |
|-------------|-------------|

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

Moisture. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------|------------------|
| Acute toxicity | : Not classified |
|----------------|------------------|

| (2-Methoxymethylethoxy)-propanol (34590-94-8) | |
|---|----------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 19020 mg/kg |
| LC50 inhalation rat (mg/l) | > 1667 mg/l/4h |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 1667 mg/l/4h |

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| ethyl 3-ethoxypropionate (763-69-9) | |
|--|--------------------------------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | 4080 mg/kg |
| LC50 inhalation rat (mg/l) | > |
| LC50 inhalation rat (ppm) | > 998 ppm 6 h, No mortality observed |
| ATE CLP (dermal) | 4080.000 mg/kg bodyweight |

| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
|---|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2 mg/l/4h |

| Benzotriazole (95-14-7) | |
|--------------------------------|------------------------------|
| LD50 oral rat | 560 - 909 mg/kg |
| LD50 dermal rabbit | > 10000 mg/kg |
| LC50 inhalation rat (mg/l) | 1.91 g/m ³ 3 hour |
| ATE CLP (oral) | 560.000 mg/kg bodyweight |
| ATE CLP (dermal) | 1100.000 mg/kg bodyweight |
| ATE CLP (vapours) | 1.910 mg/l/4h |
| ATE CLP (dust,mist) | 1.910 mg/l/4h |

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

| | |
|--|----------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| 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 |

| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
|---|----------------------|
| NOAEL (subacute, oral, animal/male, 28 days) | 200 mg/kg bodyweight |

| | |
|--------------------------|------------------|
| Aspiration hazard | : Not classified |
|--------------------------|------------------|

SECTION 12: Ecological information

12.1. Toxicity

| (2-Methoxymethylethoxy)-propanol (34590-94-8) | |
|--|--|
| LC50 fish 1 | > 1000 mg/l <i>Poecilia reticulata</i> |
| ErC50 (algae) | > 1000 mg/l |

| ethyl 3-ethoxypropionate (763-69-9) | |
|--|-------------------|
| LC50 fish 1 | 84 mg/l 24 h |
| EC50 Daphnia 1 | > 911.1 mg/l 24 h |

| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
|---|--------------------------------------|
| LC50 fish 1 | 52.5 mg/l juvenile <i>S. maximus</i> |
| EC50 Daphnia 1 | 166 mg/l |
| ErC50 (algae) | 15 mg/l |
| NOEC chronic algae | 1 mg/l |

| Benzotriazole (95-14-7) | |
|--------------------------------|-------------------------------------|
| LC50 fish 1 | > 100 mg/l <i>Brachydanio rerio</i> |
| EC50 Daphnia 1 | 91 - 141 mg/l |
| EC50 other aquatic organisms 1 | 1060 mg/l |
| LC50 fish 2 | 39 mg/l <i>Salmo gairdneri</i> |
| ErC50 (algae) | 1060 mg/l |

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12.2. Persistence and degradability

| (2-Methoxymethylethoxy)-propanol (34590-94-8) | |
|---|----------------------------|
| Persistence and degradability | Readily biodegradable. |
| ethyl 3-ethoxypropionate (763-69-9) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 108 % 18 d |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| Persistence and degradability | Not readily biodegradable. |
| Benzotriazole (95-14-7) | |
| Persistence and degradability | Product persists. |

12.3. Bioaccumulative potential

| ethyl 3-ethoxypropionate (763-69-9) | |
|---|--------------------------------|
| Log Pow | 1.47 |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1) | |
| Bioconcentration factor (BCF REACH) | < 24 |
| Bioaccumulative potential | Not expected to bioaccumulate. |
| Benzotriazole (95-14-7) | |
| Bioconcentration factor (BCF REACH) | 2.6 (estimated) |
| Log Kow | 1.44 |
| Bioaccumulative potential | Not expected to bioaccumulate. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| Quik Stik® Mini Twist Paint Marker White, Yellow, Red | |
|--|--|
| 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. |
| European List of Waste (LoW) code | : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. |
| H code | : H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation. |

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

14.6.2. Transport by sea

No additional information available

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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 substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 46 - 54 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

WGK remark : Classification based on the R-phrases 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. 453/2010

Indication of changes:

Original Document.

Abbreviations and acronyms:

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | 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 |
| | PNEC: Predicted No Effect Level |
| | STEL: Short Term Exposure Limits |
| | TSCA: Toxic Substances Control Act |
| | TWA: Time Weight Average |

Data sources

: ACGIH 2000.

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

OSHA 29CFR 1910.1200 Hazard Communication Standard.

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

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information

: None.

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

| | |
|-----------------------|-------------------------------------|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
|-----------------------|-------------------------------------|

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| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H351 | Suspected of causing cancer |
| H412 | Harmful to aquatic life with long lasting effects |
| R20/22 | Harmful by inhalation and if swallowed |
| R36 | Irritating to eyes |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R38 | Irritating to skin |
| R41 | Risk of serious damage to eyes |
| R66 | Repeated exposure may cause skin dryness or cracking |
| Xi | Irritant |
| Xn | Harmful |

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

| | | |
|---------------|------|--------------------|
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |

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