

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 8/6/2018 Version: 1.0

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

Product form : Article
 Product name : DURA-INK® 20 RETRACTABLE BULLET TIP Black

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Industrial/Professional use spec : Industrial
 For professional use only
 Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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

| EU Member State | Officieel adviesorgaan | Adres | Noodnummer |
|-----------------|--|---|------------------------------------|
| AUSTRIA | Vergiftungsinformationszentrale (Poisons Information Centre) | Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien | +43 1 406 43 43 |
| BELARUS | The Belarus Republican Poisons Centre | Kizhevatova str. 58 220115 Minsk | +375 (0)17 201 9158 |
| BELGIUM | Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1 B -1120 Bruxelles/Brussel | +32 70 245 245 |
| BULGARIA | Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov" | 21 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 |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| | | | |
|-------------|--|--|---|
| HUNGARY | Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service) | 1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2 | +36 80 20 11 99 |
| ICELAND | Eitrunarmiðstöðin | Eitrunarmiðstöðin 108 Reykjavik | +354 543 22 22 |
| IRELAND | National Poisons Information Centre | Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2166 |
| LATVIA | Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs | 2 Hipocrate Street LV 1038 Riga | +371 67 04 24 73 |
| 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]

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]

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 10% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
10% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
10% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Unknown hazards to the aquatic environment (CLP) : Contains 10 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|---|---------|---|
| 1-Methoxy-2-propanol | (CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3 | 45 - 50 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| ethanol | (CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 | 35 - 40 | Flam. Liq. 2, H225 |
| Vinyl acetal polymers, butyrals | (CAS-No.) 63148-65-2 (EC-No.) *613-158-6 | 0.5 - 1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of 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. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell. |

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

Symptoms/effects 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 | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| 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. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. 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 : Refer to section 8.2.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. 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 : Do not eat, drink or smoke when using this product.

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 explosion-proof electrical, lighting, ventilating equipment.
- Storage conditions : Keep only in the original container. Keep container tightly closed.
- Incompatible products : Strong oxidizers. Alkali metals. ammonia. Peroxides.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
- 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

| ethanol (64-17-5) | | |
|-------------------|---|---|
| Austria | MAK (mg/m ³) | 1900 mg/m ³ |
| Austria | MAK (ppm) | 1000 ppm |
| Austria | MAK Short time value (mg/m ³) | 3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert) |
| Austria | MAK Short time value (ppm) | 2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert) |
| Belgium | Limit value (mg/m ³) | 1907 mg/m ³ |
| Belgium | Limit value (ppm) | 1000 ppm |
| Denmark | Local name | Ethanol (Ethylalkohol) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 1900 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 1000 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 3800 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 2000 ppm |
| Finland | Local name | Etanoli |
| Finland | HTP-arvo (8h) (mg/m ³) | 1900 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 1000 ppm |
| Finland | HTP-arvo (15 min) | 2500 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 1300 ppm |
| France | Local name | Alcool éthylique |
| France | VME (mg/m ³) | 1900 mg/m ³ |
| France | VME (ppm) | 1000 ppm |
| France | VLE (mg/m ³) | 9500 mg/m ³ |
| France | VLE (ppm) | 5000 ppm |
| France | Note (FR) | Valeurs recommandées/admises |
| Germany | TRGS 900 Local name | Ethanol |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 960 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 500 ppm |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| ethanol (64-17-5) | | |
|-------------------|--|--|
| Germany | TRGS 900 Remark | DFG;Y |
| Hungary | Local name | ETIL-ALKOHOL |
| Hungary | AK-érték | 1900 mg/m ³ |
| Hungary | CK-érték | 7600 mg/m ³ |
| Hungary | Megjegyzések (HU) | IV. |
| Ireland | OEL (15 min ref) (ppm) | 1000 ppm |
| Latvia | Local name | Etilspirts (etanols) |
| Latvia | OEL TWA (mg/m ³) | 1000 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 1000 mg/m ³ |
| Lithuania | IPRV (ppm) | 500 ppm |
| Lithuania | TPRV (mg/m ³) | 1900 mg/m ³ |
| Lithuania | TPRV (ppm) | 1000 ppm |
| Netherlands | Local name | Ethanol |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 260 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 1900 mg/m ³ |
| Netherlands | Remark (MAC) | H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen. |
| Poland | Local name | Etanol (alkohol etylowy) |
| Poland | NDS (mg/m ³) | 1900 mg/m ³ |
| Portugal | Local name | Etanol (Álcool etílico) |
| Portugal | OEL STEL (ppm) | 1000 ppm |
| Slovakia | Local name | Etylalkohol (etanol) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 960 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 500 ppm |
| Slovakia | OEL STEL (mg/m ³) | 1920 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 1000 ppm |
| Slovenia | Local name | etanol (etilalkohol) |
| Slovenia | OEL TWA (mg/m ³) | 1900 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 1000 ppm |
| Slovenia | OEL STEL (mg/m ³) | 7600 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 4000 ppm |
| Slovenia | KTV factor SL | 4 |
| Spain | Local name | Etanol (Alcohol etílico) |
| Spain | VLA-ED (mg/m ³) | 1910 mg/m ³ |
| Spain | VLA-ED (ppm) | 1000 ppm |
| Spain | VLA-EC (mg/m ³) | 1910 mg/m ³ |
| Spain | VLA-EC (ppm) | 1000 ppm |
| Spain | Notes | s, |
| Sweden | Local name | Etanol |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 1000 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 500 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 1900 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 1000 ppm |
| Sweden | Anmärkning (SE) | V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas) |
| United Kingdom | WEL TWA (mg/m ³) | 1920 mg/m ³ |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| ethanol (64-17-5) | | |
|--|---|---|
| United Kingdom | WEL TWA (ppm) | 1000 ppm |
| Norway | Local name | Etanol |
| Norway | Grenseverdier (AN) (mg/m ³) | 950 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 500 ppm |
| Switzerland | VME (mg/m ³) | 960 mg/m ³ |
| Switzerland | MAK (ppm) | 500 ppm |
| Switzerland | KZGW (mg/m ³) | 1920 mg/m ³ |
| Switzerland | KZGW (ppm) | 1000 ppm |
| Australia | TWA (mg/m ³) | 1920 mg/m ³ |
| Australia | TWA (ppm) | 1000 ppm |
| 1-Methoxy-2-propanol (107-98-2) | | |
| EU | Local name | 1-Methoxypropanol-2 |
| EU | IOELV TWA (mg/m ³) | 375 mg/m ³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 568 mg/m ³ |
| EU | IOELV STEL (ppm) | 150 ppm |
| EU | Notes | Skin |
| Austria | MAK (mg/m ³) | 187 mg/m ³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m ³) | 187 mg/m ³ |
| Austria | MAK Short time value (ppm) | 50 ppm |
| Austria | Remark (AT) | (gemessen als Momentanwert), (H) |
| Belgium | Limit value (mg/m ³) | 375 mg/m ³ |
| Belgium | Limit value (ppm) | 100 ppm |
| Belgium | Short time value (mg/m ³) | 568 mg/m ³ |
| Belgium | Short time value (ppm) | 150 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Local name | 1-Methoxy-2-propanol |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 270 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 73.17 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 550 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 149.05 ppm |
| Czech Republic | Remark (CZ) | D |
| Denmark | Local name | 1-Methoxy-2-propanol (Propylenglycolmonomethylether) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 185 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 370 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Denmark | Anmærkninger (DK) | E (betyder, at stoffet har en EF-grænseværdi) |
| Finland | Local name | 1-Metoksi-2-propanoli |
| Finland | HTP-arvo (8h) (mg/m ³) | 370 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 100 ppm |
| Finland | HTP-arvo (15 min) | 560 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 150 ppm |
| Finland | Huomautus (FI) | iho |
| France | Local name | Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol) |
| France | VME (mg/m ³) | 188 mg/m ³ |
| France | VME (ppm) | 50 ppm |
| France | VLE (mg/m ³) | 375 mg/m ³ |
| France | VLE (ppm) | 100 ppm |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Local name | 1-Methoxy-2-propanol |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| 1-Methoxy-2-propanol (107-98-2) | | |
|---------------------------------|---|--|
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 370 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 740 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 200 ppm |
| Germany | TRGS 900 Remark | DFG,EU,Y |
| Hungary | Local name | 1-METOXIPROPÁN-2-OL |
| Hungary | AK-érték | 375 mg/m ³ |
| Hungary | CK-érték | 568 mg/m ³ |
| Hungary | Megjegyzések (HU) | b; EU1 |
| Ireland | OEL (8 hours ref) (mg/m ³) | 375 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 100 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 568 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 150 ppm |
| Italy | Local name | Metossipropanolo-2,1- |
| Italy | OEL TWA (mg/m ³) | 375 mg/m ³ |
| Italy | OEL TWA (ppm) | 100 ppm |
| Italy | OEL STEL (mg/m ³) | 568 mg/m ³ |
| Italy | OEL STEL (ppm) | 150 ppm |
| Latvia | Local name | 1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris) |
| Latvia | OEL TWA (mg/m ³) | 375 mg/m ³ |
| Latvia | OEL TWA (ppm) | 100 ppm |
| Latvia | OEL STEL (mg/m ³) | 568 mg/m ³ |
| Latvia | OEL STEL (ppm) | 150 ppm |
| Lithuania | IPRV (mg/m ³) | 190 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 300 mg/m ³ |
| Lithuania | TPRV (ppm) | 75 ppm |
| Netherlands | Local name | 1-Methoxy-2-propanol |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 375 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 563 mg/m ³ |
| Netherlands | Remark (MAC) | (H) |
| Poland | Local name | 1-Metoksypropan-2-ol |
| Poland | NDS (mg/m ³) | 180 mg/m ³ |
| Poland | NDSCh (mg/m ³) | 360 mg/m ³ |
| Portugal | Local name | 1-Metoxi-2-propanol (PGME) |
| Portugal | OEL TWA (ppm) | 50 ppm |
| Portugal | OEL STEL (ppm) | 100 ppm |
| Slovakia | Local name | 1-Metoxipropan-2-ol (propylēnglykolmonometyléter) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 375 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm |
| Slovakia | OEL STEL (mg/m ³) | 568 mg/m ³ |
| Slovakia | OEL STEL (ppm) | 150 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Slovenia | Local name | 1-metoksi-2-propanol (propilēnglikolmonometil eter) |
| Slovenia | OEL TWA (mg/m ³) | 375 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 100 ppm |
| Slovenia | OEL STEL (mg/m ³) | 562.5 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 150 ppm |
| Spain | Local name | 1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol) |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| 1-Methoxy-2-propanol (107-98-2) | | |
|---------------------------------|---|--|
| Spain | VLA-ED (mg/m ³) | 375 mg/m ³ |
| Spain | VLA-ED (ppm) | 100 ppm |
| Spain | VLA-EC (mg/m ³) | 568 mg/m ³ |
| Spain | VLA-EC (ppm) | 150 ppm |
| Spain | Notes | via dérmica,VLI |
| Sweden | Local name | 1-Metoxi-2-propanol |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 190 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 300 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 75 ppm |
| Sweden | Anmärkning (SE) | H |
| United Kingdom | WEL TWA (mg/m ³) | 375 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 560 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 150 ppm |
| Norway | Local name | 1-metoksy-2-propanol (Propylenglykolmonometyleter) |
| Norway | Grenseverdier (AN) (mg/m ³) | 180 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 50 ppm |
| Norway | Merknader (NO) | H |
| Switzerland | VME (mg/m ³) | 360 mg/m ³ |
| Switzerland | MAK (ppm) | 100 ppm 20 ppm (urina; fine dell'esposizione / del turno) |
| Switzerland | KZGW (mg/m ³) | 720 mg/m ³ |
| Switzerland | KZGW (ppm) | 200 ppm |
| Australia | TWA (mg/m ³) | 375 mg/m ³ |
| Australia | TWA (ppm) | 100 ppm |
| Australia | STEL (mg/m ³) | 1120 mg/m ³ |
| Australia | STEL (ppm) | 300 ppm |

8.2. Exposure controls

Appropriate engineering controls:

Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. neoprene/butyl rubber. EN374

Eye protection:

Chemical goggles or safety glasses. If there is a risk of liquid being splashed : Face shield. EN166

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|---------------------------------------|
| Physical state | : Liquid |
| Appearance | : Solid marker containing liquid ink. |
| Colour | : Black. |
| Odour | : Solvent. |
| Odour threshold | : No data available |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| | |
|--|--------------------------------|
| pH | : >= 5.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : -144 °C |
| Boiling point | : 118 - 119 °C |
| Flash point | : 34 °C |
| Auto-ignition temperature | : 425 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Flammable liquid and vapour. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : >= 0.83 @ 25 °C |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : >= 8 cP @ 25 °C |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

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

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Alkali metals. ammonia. Peroxides. Oxidizer.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| ethanol (64-17-5) | |
|----------------------------|---------------|
| LD50 oral rat | 10470 mg/kg |
| LD50 dermal rabbit | > 20000 mg/kg |
| LC50 inhalation rat (mg/l) | 133.8 mg/l/4h |

| 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 |

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 10% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
10% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
10% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| | |
|-------------------------------|--|
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |

SECTION 12: Ecological information

12.1. Toxicity

| ethanol (64-17-5) | |
|---------------------------------|-------------|
| LC50 fish 1 | 14200 mg/l |
| EC50 Daphnia 1 | 5012 mg/l |
| 1-Methoxy-2-propanol (107-98-2) | |
| LC50 fish 1 | 20800 mg/l |
| EC50 Daphnia 1 | 23300 mg/l |
| ErC50 (algae) | > 1000 mg/l |

Unknown hazards to the aquatic environment (CLP) : Contains 10 % of components with unknown hazards to the aquatic environment

12.2. Persistence and degradability

| DURA-INK® 20 RETRACTABLE BULLET TIP Black | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| ethanol (64-17-5) | |
| Biodegradation | > 96 % 28 d |
| 1-Methoxy-2-propanol (107-98-2) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 96 % 28 d |

12.3. Bioaccumulative potential

| DURA-INK® 20 RETRACTABLE BULLET TIP Black | |
|---|--------------------------------|
| Bioaccumulative potential | Not established. |
| ethanol (64-17-5) | |
| Bioaccumulative potential | Not expected to bioaccumulate. |
| 1-Methoxy-2-propanol (107-98-2) | |
| Bioaccumulative potential | Not expected to bioaccumulate. |

12.4. Mobility in soil

| DURA-INK® 20 RETRACTABLE BULLET TIP Black | |
|---|------------------|
| Ecology - soil | Not established. |

12.5. Results of PBT and vPvB assessment

| DURA-INK® 20 RETRACTABLE BULLET TIP Black | |
|---|--|
| PBT: not yet assessed | |
| vPvB: not yet assessed | |

12.6. Other adverse effects

Additional information : Avoid release to the environment.

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.

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| | |
|-----------------------------------|--|
| 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. |
| HP Code | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP3 - "Flammable:" — flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; — flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; — flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; — flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; — water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; — other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. |

SECTION 14: Transport information

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

14.1. UN number

| | |
|---------------|------------------|
| UN-No. (ADR) | : Not regulated. |
| UN-No. (IMDG) | : Not regulated. |
| UN-No. (IATA) | : Not regulated. |
| UN-No. (ADN) | : Not regulated. |
| UN-No. (RID) | : Not regulated. |

14.2. UN proper shipping name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (ADR) | : Not regulated. |
| Proper Shipping Name (IMDG) | : Not regulated. |
| Proper Shipping Name (IATA) | : Not regulated. |
| Proper Shipping Name (ADN) | : Not regulated. |
| Proper Shipping Name (RID) | : Not regulated. |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not regulated. |
|----------------------------------|------------------|

IMDG

| | |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not regulated. |
|-----------------------------------|------------------|

IATA

| | |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not regulated. |
|-----------------------------------|------------------|

ADN

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not regulated. |
|----------------------------------|------------------|

RID

| | |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not regulated. |
|----------------------------------|------------------|

14.4. Packing group

| | |
|----------------------|------------------|
| Packing group (ADR) | : Not regulated. |
| Packing group (IMDG) | : Not regulated. |
| Packing group (IATA) | : Not regulated. |
| Packing group (ADN) | : Not regulated. |
| Packing group (RID) | : Not regulated. |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

14.6. Special precautions for user

- Overland transport

Not regulated.

- Transport by sea

Not regulated.

- Air transport

Not regulated.

- Inland waterway transport

Not regulated.

- Rail transport

Not regulated.

14.7. Transport in bulk according to Annex II of Marpol 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

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : ethanol is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : ethanol is listed

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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 |

DURA-INK® 20 RETRACTABLE BULLET TIP Black

Safety Data Sheet

according to Regulation (EU) 2015/830

| | |
|--|---|
| | OSHA: Occupational Safety & Health Administration |
| | PBT: Persistent, Bioaccumulative, Toxic |
| | TWA: Time Weighted Average |
| | TSCA: Toxic Substances Control Act |

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

| | |
|---------------|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, 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, Narcosis |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |

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