



# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 17/10/2024 Revision date: 28/08/2024 Supersedes version of: 29/11/2023 Version: 3.5

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

#### 1.1. Product identifier

Product name : MARKER PAINT fluo colors  
UFI : 6MNX-C842-K00X-AD7E  
Product code : BDS001592AE  
Vaporizer : Aerosol

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Paints

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

CRC Industries Europe B.V.  
Touwslagerstraat 1  
9240 Zele  
Belgium  
T +32(0)52/45.60.11, F +32(0)52/45.00.34  
[hse@crcind.com](mailto:hse@crcind.com), [www.crcind.com](http://www.crcind.com)

#### 1.4. Emergency telephone number

Emergency number : +32(0)52/45.60.11  
Office hours: 9-17h CET

| Country/Area | Organisation/Company   | Address                      | Emergency number | Comment  |
|--------------|--|------------------------------|------------------|--|
| Belgium      | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Militaire Reine Astrid | Rue Bruyn 1<br>1120 Brussels | +32 70 245 245   | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336

Full text of H- and EUH-statements: see section 16

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

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation.

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Contains

: ethyl acetate; n-butyl acetate; 2-methoxy-1-methylethyl acetate; butan-1-ol; n-butanol

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing vapours/spray.

P280 - Wear protective gloves/eye protection.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH208 - Contains formaldehyde (50-00-0), reaction mass of: N, N'-Ethane-1,2-diylobis(decylamide); 12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecylamide; N, N'-Ethane-1,2-diylobis(12hydroxyoctadecylamide). May produce an allergic reaction.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name   | Product identifier   | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]       |
|--|--|----------|---|
| dimethyl ether<br>substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit  | CAS-No.: 115-10-6<br>EC-No.: 204-065-8<br>EC Index-No.: 603-019-00-8<br>REACH-no: 01-2119472128-37 | 30 - <50 | Flam. Gas 1, H220<br>Press. Gas (Liq.), H280                          |
| ethyl acetate<br>substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit   | CAS-No.: 141-78-6<br>EC-No.: 205-500-4<br>EC Index-No.: 607-022-00-5<br>REACH-no: 01-2119475103-46 | 20 - <30 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066 |
| n-butyl acetate<br>substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit | CAS-No.: 123-86-4<br>EC-No.: 204-658-1<br>EC Index-No.: 607-025-00-1<br>REACH-no: 01-2119485493-29 | 10 - <20 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066                       |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Name  | Product identifier   | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|----------|---|
| 2-methoxy-1-methylethyl acetate<br>substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit                  | CAS-No.: 108-65-6<br>EC-No.: 203-603-9<br>EC Index-No.: 607-195-00-7<br>REACH-no: 01-2119475791-29 | 2,5 - <5 | Flam. Liq. 3, H226<br>STOT SE 3, H336   |
| butan-1-ol; n-butanol<br>substance with national workplace exposure limit(s) (BE)   | CAS-No.: 71-36-3<br>EC-No.: 200-751-6<br>EC Index-No.: 603-004-00-6<br>REACH-no: 01-2119484630-38  | 1 - <2,5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336   |
| reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxydecyl)amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide) | EC-No.: 430-050-2<br>EC Index-No.: 616-127-00-5<br>REACH-no: 01-2120789217-43                      | 0,3 - <1 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |
| formaldehyde<br>substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit                                     | CAS-No.: 50-00-0<br>EC-No.: 200-001-8<br>EC Index-No.: 605-001-00-5<br>REACH-no: 01-2119488953-20  | < 0,05   | Carc. 1B, H350<br>Muta. 2, H341<br>Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight)<br>Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight)<br>Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h)<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317 |

### Specific concentration limits:

| Name         | Product identifier  | Specific concentration limits (%)  |
|--------------|---|--|
| formaldehyde | CAS-No.: 50-00-0<br>EC-No.: 200-001-8<br>EC Index-No.: 605-001-00-5<br>REACH-no: 01-2119488953-20 | (0,2 ≤ C ≤ 100) Skin Sens. 1; H317<br>(5 ≤ C < 25) Skin Irrit. 2; H315<br>(5 ≤ C < 25) Eye Irrit. 2; H319<br>(5 ≤ C ≤ 100) STOT SE 3; H335<br>(25 ≤ C ≤ 100) Skin Corr. 1B; H314 |

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention.  |
| First-aid measures after skin contact | : Wash skin with plenty of water. Seek medical attention if irritation develops.  |
| 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. Seek medical attention if irritation develops. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.  |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : May cause drowsiness or dizziness.                    |
| Symptoms/effects after skin contact | : Repeated exposure may cause skin dryness or cracking. |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Symptoms/effects after eye contact : Eye irritation.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol.  
Explosion hazard : Pressurised container: May burst if heated.  
Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Methods for cleaning up : Mechanically recover the product. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations".

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

| dimethyl ether (115-10-6)                                 |  |
|---|--|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | Dimethylether                              |
| IOEL TWA  | 1920 mg/m <sup>3</sup>                     |
|   | 1000 ppm                                   |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC            |
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| Local name  | Oxyde de diméthyle # Dimethylether         |
| OEL TWA   | 1920 mg/m <sup>3</sup>                     |
|   | 1000 ppm                                   |
| Regulatory reference                                      | Koninklijk besluit/Arrêté royal 16/11/2023 |
| ethyl acetate (141-78-6)                                  |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | Ethyl acetate                              |
| IOEL TWA  | 734 mg/m <sup>3</sup>                      |
|   | 200 ppm                                    |
| IOEL STEL   | 1468 mg/m <sup>3</sup>                     |
|   | 400 ppm                                    |
| Regulatory reference                                      | COMMISSION DIRECTIVE (EU) 2017/164         |
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| Local name  | Acétate d'éthyle # Ethylacetaat            |
| OEL TWA   | 734 mg/m <sup>3</sup>                      |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| <b>ethyl acetate (141-78-6)</b>                           |  |
|---|--|
|   | 200 ppm  |
| OEL STEL  | 1468 mg/m <sup>3</sup>   |
|   | 400 ppm  |
| Regulatory reference                                      | Koninklijk besluit/Arrêté royal 16/11/2023   |
| <b>n-butyl acetate (123-86-4)</b>                         |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | n-Butyl acetate  |
| IOEL TWA  | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| IOEL STEL   | 723 mg/m <sup>3</sup>  |
|   | 150 ppm  |
| Regulatory reference                                      | COMMISSION DIRECTIVE (EU) 2019/1831  |
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| Local name  | Acétate de n-butyle # n-Butylacetaat   |
| OEL TWA   | 238 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 712 mg/m <sup>3</sup>  |
|   | 150 ppm  |
| Regulatory reference                                      | Koninklijk besluit/Arrêté royal 16/11/2023   |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>         |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | 2-Methoxy-1-methylethylacetate   |
| IOEL TWA  | 275 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| IOEL STEL   | 550 mg/m <sup>3</sup>  |
|   | 100 ppm  |
| Remark  | Skin   |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC  |
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| Local name  | Acétate de 2-(1-méthoxy)propyle # 2-(1-Methoxy)propylacetaat   |
| OEL TWA   | 275 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 550 mg/m <sup>3</sup>  |
|   | 100 ppm  |
| Remark  | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |   |
|--|---|
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>      |   |
| Regulatory reference                                   | Koninklijk besluit/Arrêté royal 16/11/2023  |
| <b>formaldehyde (50-00-0)</b>                          |   |
| <b>EU - Binding Occupational Exposure Limit (BOEL)</b> |   |
| Local name   | Formaldehyde  |
| BOEL TWA   | 0,37 mg/m <sup>3</sup><br>0,3 ppm   |
| BOEL STEL  | 0,74 mg/m <sup>3</sup><br>0,6 ppm   |
| Notes  | Dermal sensitisation (The substance can cause sensitisation of the skin)  |
| Regulatory reference                                   | DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)   |
| <b>Belgium - Occupational Exposure Limits</b>          |   |
| Local name   | Aldéhyde formique # Formaldehyde  |
| OEL STEL   | 0,38 mg/m <sup>3</sup><br>0,3 ppm   |
| Remark   | C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérogènes, mutagènes et reprotoïques du livre VI du code de bien-être au travail, M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # C: de vermelding "C" betekent dat het betrokken agens valt onder het toepassingsgebied van titel 2 betreffende kankerverwekkende, mutagene en reprotoxische agentia van boek VI van de codex over het welzijn op het werk, M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkproces moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. Het meetresultaat wordt dan gerelateerd aan de beschouwde periode. |
| Regulatory reference                                   | Koninklijk besluit/Arrêté royal 16/11/2023  |
| <b>butan-1-ol; n-butanol (71-36-3)</b>                 |   |
| <b>Belgium - Occupational Exposure Limits</b>          |   |
| Local name   | Alcool n-butylique # n-Butanol  |
| OEL TWA  | 62 mg/m <sup>3</sup><br>20 ppm  |
| Remark   | D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.  |
| Regulatory reference                                   | Koninklijk besluit/Arrêté royal 16/11/2023  |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### DNEL and PNEC

| <b>dimethyl ether (115-10-6)</b>         |                          |
|--|--------------------------|
| <b>DNEL/DMEL (Workers)</b>               |                          |
| Long-term - systemic effects, inhalation | 1894 mg/m <sup>3</sup>   |
| <b>DNEL/DMEL (General population)</b>    |                          |
| Long-term - systemic effects, inhalation | 471 mg/m <sup>3</sup>    |
| <b>PNEC (Water)</b>                      |                          |
| PNEC aqua (freshwater)                   | 0,155 mg/l               |
| PNEC aqua (marine water)                 | 0,016 mg/l               |
| PNEC aqua (intermittent, freshwater)     | 1549 mg/l                |
| <b>PNEC (Sediment)</b>                   |                          |
| PNEC sediment (freshwater)               | 0,681 mg/kg dwt          |
| PNEC sediment (marine water)             | 0,069 mg/kg dwt          |
| <b>PNEC (Soil)</b>                       |                          |
| PNEC soil                                | 0,045 mg/kg dwt          |
| <b>PNEC (STP)</b>                        |                          |
| PNEC sewage treatment plant              | 160 mg/l                 |
| <b>ethyl acetate (141-78-6)</b>          |                          |
| <b>DNEL/DMEL (Workers)</b>               |                          |
| Acute - systemic effects, inhalation     | 1468 mg/m <sup>3</sup>   |
| Acute - local effects, inhalation        | 1468 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 63 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 734 mg/m <sup>3</sup>    |
| Long-term - local effects, inhalation    | 734 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>    |                          |
| Acute - systemic effects, inhalation     | 734 mg/m <sup>3</sup>    |
| Acute - local effects, inhalation        | 734 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral       | 4,5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 367 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 37 mg/kg bodyweight/day  |
| Long-term - local effects, inhalation    | 367 mg/m <sup>3</sup>    |
| <b>PNEC (Water)</b>                      |                          |
| PNEC aqua (freshwater)                   | 0,24 mg/l                |
| PNEC aqua (marine water)                 | 0,024 mg/l               |
| PNEC aqua (intermittent, freshwater)     | 1,65 mg/l                |
| <b>PNEC (Sediment)</b>                   |                          |
| PNEC sediment (freshwater)               | 1,15 mg/kg dwt           |
| PNEC sediment (marine water)             | 0,115 mg/kg dwt          |
| <b>PNEC (Soil)</b>                       |                          |
| PNEC soil                                | 0,148 mg/kg dwt          |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                          |
|---|--------------------------|
| <b>ethyl acetate (141-78-6)</b>                   |                          |
| <b>PNEC (Oral)</b>                                |                          |
| PNEC oral (secondary poisoning)                   | 0,2 g/kg food            |
| <b>PNEC (STP)</b>                                 |                          |
| PNEC sewage treatment plant                       | 650 mg/l                 |
| <b>n-butyl acetate (123-86-4)</b>                 |                          |
| <b>PNEC (Water)</b>                               |                          |
| PNEC aqua (freshwater)                            | 0,18 mg/l                |
| PNEC aqua (marine water)                          | 0,018 mg/l               |
| PNEC aqua (intermittent, freshwater)              | 0,36 mg/l                |
| <b>PNEC (Sediment)</b>                            |                          |
| PNEC sediment (freshwater)                        | 0,981 mg/kg dwt          |
| PNEC sediment (marine water)                      | 0,0981 mg/kg dwt         |
| <b>PNEC (Soil)</b>                                |                          |
| PNEC soil   | 0,0903 mg/kg dwt         |
| <b>PNEC (STP)</b>                                 |                          |
| PNEC sewage treatment plant                       | 35,6 mg/l                |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b> |                          |
| <b>DNEL/DMEL (Workers)</b>                        |                          |
| Acute - local effects, inhalation                 | 550 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal              | 796 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation          | 275 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>             |                          |
| Acute - systemic effects, oral                    | 500 mg/kg bodyweight/day |
| Long-term - systemic effects, oral                | 36 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation          | 33 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal              | 320 mg/kg bodyweight/day |
| Long-term - local effects, inhalation             | 33 mg/m <sup>3</sup>     |
| <b>PNEC (Water)</b>                               |                          |
| PNEC aqua (freshwater)                            | 0,635 mg/l               |
| PNEC aqua (marine water)                          | 0,0635 mg/l              |
| PNEC aqua (intermittent, freshwater)              | 6,35 mg/l                |
| <b>PNEC (Sediment)</b>                            |                          |
| PNEC sediment (freshwater)                        | 3,29 mg/kg dwt           |
| PNEC sediment (marine water)                      | 0,329 mg/kg dwt          |
| <b>PNEC (Soil)</b>                                |                          |
| PNEC soil   | 0,29 mg/kg dwt           |
| <b>PNEC (STP)</b>                                 |                          |
| PNEC sewage treatment plant                       | 100 mg/l                 |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| <b>butan-1-ol; n-butanol (71-36-3)</b>   |                             |
|--|-----------------------------|
| <b>DNEL/DMEL (Workers)</b>   |                             |
| Long-term - local effects, inhalation  | 310 mg/m <sup>3</sup>       |
| <b>DNEL/DMEL (General population)</b>  |                             |
| Long-term - systemic effects,oral  | 1,5625 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation   | 55,357 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal   | 3,125 mg/kg bodyweight/day  |
| Long-term - local effects, inhalation  | 155 mg/m <sup>3</sup>       |
| <b>PNEC (Water)</b>  |                             |
| PNEC aqua (freshwater)   | 0,082 mg/l                  |
| PNEC aqua (marine water)   | 0,0082 mg/l                 |
| PNEC aqua (intermittent, freshwater)   | 2,25 mg/l                   |
| <b>PNEC (Sediment)</b>   |                             |
| PNEC sediment (freshwater)   | 0,324 mg/kg dwt             |
| PNEC sediment (marine water)   | 0,0324 mg/kg dwt            |
| <b>PNEC (Soil)</b>   |                             |
| PNEC soil  | 0,0166 mg/kg dwt            |
| <b>PNEC (STP)</b>  |                             |
| PNEC sewage treatment plant  | 2476 mg/l                   |
| <b>reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide)</b> |                             |
| <b>DNEL/DMEL (Workers)</b>   |                             |
| Long-term - systemic effects, dermal   | 5 mg/kg bodyweight/day      |
| Long-term - systemic effects, inhalation   | 17,62 mg/m <sup>3</sup>     |
| <b>DNEL/DMEL (General population)</b>  |                             |
| Long-term - systemic effects,oral  | 2,5 mg/kg bodyweight/day    |
| <b>PNEC (Water)</b>  |                             |
| PNEC aqua (freshwater)   | 0,058 µg/l                  |
| PNEC aqua (marine water)   | 0,0058 µg/l                 |
| PNEC aqua (intermittent, freshwater)   | 0,054 µg/l                  |
| <b>PNEC (Sediment)</b>   |                             |
| PNEC sediment (freshwater)   | 1 mg/kg dwt                 |
| PNEC sediment (marine water)   | 0,1 mg/kg dwt               |
| <b>PNEC (Soil)</b>   |                             |
| PNEC soil  | 1 mg/kg dwt                 |
| <b>PNEC (Oral)</b>   |                             |
| PNEC oral (secondary poisoning)  | 33,3 mg/kg food             |
| <b>PNEC (STP)</b>  |                             |
| PNEC sewage treatment plant  | 100 mg/l                    |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal protection equipment

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Use eye protection according to EN 166. Safety glasses with side shields.

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended. Butyl-rubber protective gloves.

#### Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. Filter type: A

#### Thermal hazards

##### Thermal hazard protection:

Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9: Physical and chemical properties

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

|                           |   |
|---------------------------|---|
| Physical state            | : Liquid                                      |
| Colour                    | : Blue. Green. red. Yellow. Violet. orange.   |
| Appearance                | : DME propelled liquid.                       |
| Odour                     | : characteristic.                             |
| Odour threshold           | : Not available                               |
| Melting point             | : Not applicable                              |
| Freezing point            | : Not available                               |
| Boiling point             | : -25 °C (DME)                                |
| Flammability              | : Extremely flammable aerosol.                |
| Explosive properties      | : Pressurised container: May burst if heated. |
| Lower explosion limit     | : Not available                               |
| Upper explosion limit     | : Not available                               |
| Flash point               | : -39 °C (closed cup)                         |
| Auto-ignition temperature | : 240 °C                                      |
| Decomposition temperature | : Not available                               |
| pH                        | : Not available                               |
| Viscosity, kinematic      | : Not available                               |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                                    |
|---|------------------------------------|
| Solubility                                      | : Insoluble in water.              |
| Partition coefficient n-octanol/water (Log Kow) | : Not applicable                   |
| Vapour pressure                                 | : < 300 kPa                        |
| Vapour pressure at 50°C                         | : Not available                    |
| Density   | : 0,802 g/cm <sup>3</sup> at 20 °C |
| Relative density                                | : 0,802 at 20 °C                   |
| Relative vapour density at 20°C                 | : Not available                    |
| Particle characteristics                        | : Not applicable                   |

### 9.2. Other information

#### Information with regard to physical hazard classes

% of flammable ingredients : ≤ 75 %

#### Other safety characteristics

VOC content : 712 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                    |   |
|------------------------------------|---|
| <b>Acute toxicity (oral)</b>       | : Not classified (Based on available data, the classification criteria are not met) |
| <b>Acute toxicity (dermal)</b>     | : Not classified (Based on available data, the classification criteria are not met) |
| <b>Acute toxicity (inhalation)</b> | : Not classified (Based on available data, the classification criteria are not met) |

#### dimethyl ether (115-10-6)

|                             |               |
|-----------------------------|---------------|
| LC50 Inhalation - Rat       | 308,5 mg/l/4h |
| LC50 Inhalation - Rat [ppm] | 164000 ppm    |

#### ethyl acetate (141-78-6)

|                    |                              |
|--------------------|------------------------------|
| LD50 oral          | 4934 mg/kg bodyweight        |
| LD50 dermal rabbit | > 20000 (<) mg/kg bodyweight |

#### n-butyl acetate (123-86-4)

|                    |               |
|--------------------|---------------|
| LD50 oral rat      | 10760 mg/kg   |
| LD50 dermal rabbit | > 17600 mg/kg |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |   |
|--|---|
| <b>n-butyl acetate (123-86-4)</b>  |   |
| LC50 Inhalation - Rat (Dust/Mist)  | 23,4 mg/l/4h  |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>  |   |
| LD50 oral rat  | > 5000 mg/kg  |
| LD50 oral  | 8532 mg/kg bodyweight   |
| LD50 dermal rat  | > 2000 mg/kg bodyweight   |
| LD50 dermal  | > 5000 mg/kg bodyweight   |
| LC50 Inhalation - Rat (Dust/Mist)  | > 10800 mg/l  |
| <b>formaldehyde (50-00-0)</b>  |   |
| LD50 oral rat  | 100 mg/kg   |
| LD50 dermal rabbit   | 300 mg/kg   |
| LC50 Inhalation - Rat  | > 20 mg/l   |
| <b>butan-1-ol; n-butanol (71-36-3)</b>   |   |
| LD50 oral rat  | 2292 mg/kg bodyweight   |
| LD50 dermal rabbit   | 3430 mg/kg bodyweight   |
| <b>reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide)</b> |   |
| LD50 oral rat  | > 5000 mg/kg bodyweight   |
| LD50 dermal rat  | > 2000 mg/kg bodyweight   |
| <b>Skin corrosion/irritation</b>   | : Not classified (Based on available data, the classification criteria are not met) |
| <b>n-butyl acetate (123-86-4)</b>  |   |
| pH   | 6,2   |
| <b>formaldehyde (50-00-0)</b>  |   |
| pH   | 2,8 – 4   |
| <b>Serious eye damage/irritation</b>   | : Causes serious eye irritation.  |
| <b>n-butyl acetate (123-86-4)</b>  |   |
| pH   | 6,2   |
| <b>formaldehyde (50-00-0)</b>  |   |
| pH   | 2,8 – 4   |
| <b>Respiratory or skin sensitisation</b>   | : Not classified (Based on available data, the classification criteria are not met) |
| <b>Germ cell mutagenicity</b>  | : Not classified (Based on available data, the classification criteria are not met) |
| <b>Carcinogenicity</b>   | : Not classified (Based on available data, the classification criteria are not met) |
| <b>Reproductive toxicity</b>   | : Not classified (Based on available data, the classification criteria are not met) |
| <b>STOT-single exposure</b>  | : May cause drowsiness or dizziness.  |
| <b>ethyl acetate (141-78-6)</b>  |   |
| STOT-single exposure   | May cause drowsiness or dizziness.  |
| <b>n-butyl acetate (123-86-4)</b>  |   |
| STOT-single exposure   | May cause drowsiness or dizziness.  |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>  |   |
| STOT-single exposure   | May cause drowsiness or dizziness.  |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |   |
|--|---|
| <b>butan-1-ol; n-butanol (71-36-3)</b>   |   |
| STOT-single exposure   | May cause respiratory irritation. May cause drowsiness or dizziness.                |
| <b>STOT-repeated exposure</b>  | : Not classified (Based on available data, the classification criteria are not met) |
| <b>ethyl acetate (141-78-6)</b>  |   |
| LOAEL (oral, rat, 90 days)   | 3600 mg/kg bodyweight   |
| NOAEL (oral, rat, 90 days)   | 900 mg/kg bodyweight  |
| <b>n-butyl acetate (123-86-4)</b>  |   |
| LOAEL (oral, rat, 90 days)   | 500 mg/kg bodyweight  |
| NOAEL (oral, rat, 90 days)   | 125 mg/kg bodyweight  |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>  |   |
| NOAEL (dermal, rat/rabbit, 90 days)  | > 1000 mg/kg bodyweight   |
| <b>reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide)</b> |   |
| NOAEL (oral, rat, 90 days)   | 150 mg/kg bodyweight  |
| <b>Aspiration hazard</b>   | : Not classified (Based on available data, the classification criteria are not met) |
| <b>MARKER PAINT fluo colors</b>  |   |
| Vaporizer  | Aerosol   |
| <b>n-butyl acetate (123-86-4)</b>  |   |
| Viscosity, kinematic   | 0,83 mm <sup>2</sup> /s   |
| <b>butan-1-ol; n-butanol (71-36-3)</b>   |   |
| Viscosity, kinematic   | 3,641 mm <sup>2</sup> /s  |

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>dimethyl ether (115-10-6)</b> |                                      |
| LC50 - Fish [1]                  | > 4,1 g/l                            |
| EC50 - Crustacea [1]             | > 4,4 g/l Daphnia magna (Water flea) |
| EC50 96h - Algae [1]             | 154917 mg/l                          |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| <b>ethyl acetate (141-78-6)</b>  |                                     |
|--|-------------------------------------|
| LC50 - Fish [1]  | 230 mg/l                            |
| EC50 - Other aquatic organisms [1]   | 717 mg/l Daphnia magna (Water flea) |
| NOEC (chronic)   | 2,4 mg/l 21 d                       |
| <b>n-butyl acetate (123-86-4)</b>  |                                     |
| LC50 - Fish [1]  | 18 mg/l                             |
| EC50 - Crustacea [1]   | 44 mg/l                             |
| EC50 72h - Algae [1]   | 674,7 mg/l                          |
| LOEC (chronic)   | 47,6 mg/l                           |
| NOEC (chronic)   | 23,2 mg/l                           |
| NOEC chronic algae   | 200 mg/l                            |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>  |                                     |
| LC50 - Fish [1]  | > 100 mg/l                          |
| EC50 - Crustacea [1]   | > 500 mg/l                          |
| EC50 - Other aquatic organisms [1]   | 408 mg/l                            |
| EC50 - Other aquatic organisms [2]   | > 1000 mg/l                         |
| EC50 72h - Algae [1]   | > 1000 mg/l                         |
| NOEC (chronic)   | ≥ 100 mg/l                          |
| NOEC chronic fish  | 47,5 mg/l                           |
| <b>formaldehyde (50-00-0)</b>  |                                     |
| LC50 - Fish [1]  | 6,7 mg/l Morone saxatilis           |
| EC50 - Crustacea [1]   | 5,8 mg/l Daphnia pulex              |
| NOEC (chronic)   | ≥ 6,4 mg/l Daphnia magna (21 d)     |
| NOEC chronic fish  | ≥ 48 mg/l Oryzias latipes (28 d)    |
| <b>butan-1-ol; n-butanol (71-36-3)</b>   |                                     |
| LC50 - Fish [1]  | 1376 mg/l Pimephales promelas       |
| EC50 - Crustacea [1]   | 1328 mg/l Daphnia magna             |
| EC50 96h - Algae [1]   | 225 mg/l Raphidocelis subcapitata   |
| NOEC (chronic)   | 4,1 mg/l Daphnia magna (21 d)       |
| <b>reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide)</b> |                                     |
| LC50 - Fish [1]  | 1 – 10 mg/l                         |
| EC50 - Crustacea [1]   | 1 – 10 mg/l                         |
| EC50 72h - Algae [1]   | 1 – 10 mg/l                         |
| LOEC (chronic)   | 2,5 mg/l Daphnia magna (21 d)       |
| NOEC (chronic)   | 0,9 mg/l Daphnia magna (21 d)       |

## 12.2. Persistence and degradability

### MARKER PAINT fluo colors

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Not established. No data is available on the degradability of this product. |
|-------------------------------|---|

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.3. Bioaccumulative potential

#### MARKER PAINT fluo colors

|   |                |
|---|----------------|
| Partition coefficient n-octanol/water (Log Kow) | Not applicable |
|---|----------------|

#### dimethyl ether (115-10-6)

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0,07 |
|---|------|

#### ethyl acetate (141-78-6)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 0,7 |
|---|-----|

#### n-butyl acetate (123-86-4)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 2,3 |
|---|-----|

#### 2-methoxy-1-methylethyl acetate (108-65-6)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1,2 |
|---|-----|

#### formaldehyde (50-00-0)

|   |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | 0,779 |
|---|-------|

#### butan-1-ol; n-butanol (71-36-3)

|   |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1 |
|---|---|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### MARKER PAINT fluo colors

|                           |  |
|---------------------------|--|
| Results of PBT assessment | Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII |
|---------------------------|--|

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

Additional information : No other effects known  
Global warming potential (GWP) : 0.50 (Fluorinated greenhouse gases - (EC) No 2024/573)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
European List of Waste (LoW, EC 2000/532) : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.






## SECTION 14: Transport information

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

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |   |   |
| UN 1950   | UN 1950   | UN 1950   | UN 1950   | UN 1950   |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| AEROSOLS  | AEROSOLS  | Aerosols, flammable   | AEROSOLS  | AEROSOLS  |
| <b>Transport document description</b>   |   |   |   |   |
| UN 1950 AEROSOLS, 2.1, (D)  | UN 1950 AEROSOLS, 2.1   | UN 1950 Aerosols, flammable, 2.1  | UN 1950 AEROSOLS, 2.1   | UN 1950 AEROSOLS, 2.1   |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
|  |                            |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| Not applicable  | Not applicable  | Not applicable  | Not applicable  | Not applicable  |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-D<br>EmS-No. (Spillage): S-U | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available  |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |                      |
|---|----------------------|
| Classification code (ADR)   | : 5F                 |
| Special provisions (ADR)  | : 190, 327, 344, 625 |
| Limited quantities (ADR)  | : 1I                 |
| Excepted quantities (ADR)   | : E0                 |
| Packing instructions (ADR)  | : P207, LP200        |
| Special packing provisions (ADR)  | : PP87, RR6, L2      |
| Mixed packing provisions (ADR)  | : MP9                |
| Transport category (ADR)  | : 2                  |
| Special provisions for carriage - Packages (ADR)                        | : V14                |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV12          |
| Special provisions for carriage - Operation (ADR)                       | : S2                 |
| Tunnel restriction code (ADR)   | : D                  |

#### Transport by sea

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 381, 959 |
| Limited quantities (IMDG)         | : SP277                            |
| Excepted quantities (IMDG)        | : E0                               |
| Packing instructions (IMDG)       | : P207, LP200                      |
| Special packing provisions (IMDG) | : PP87, L2                         |
| Stowage category (IMDG)           | : None                             |
| Stowage and handling (IMDG)       | : SW1, SW22                        |
| Segregation (IMDG)                | : SG69                             |

#### Air transport

|                                |        |
|--------------------------------|--------|
| PCA Excepted quantities (IATA) | : E0   |
| PCA Limited quantities (IATA)  | : Y203 |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |                    |
|--|--------------------|
| PCA limited quantity max net quantity (IATA) | : 30kgG            |
| PCA packing instructions (IATA)              | : 203              |
| PCA max net quantity (IATA)                  | : 75kg             |
| CAO packing instructions (IATA)              | : 203              |
| CAO max net quantity (IATA)                  | : 150kg            |
| Special provisions (IATA)                    | : A145, A167, A802 |
| ERG code (IATA)                              | : 10L              |

### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : 5F                 |
| Special provisions (ADN)          | : 190, 327, 344, 625 |
| Limited quantities (ADN)          | : 1 L                |
| Excepted quantities (ADN)         | : E0                 |
| Equipment required (ADN)          | : PP, EX, A          |
| Ventilation (ADN)                 | : VE01, VE04         |
| Number of blue cones/lights (ADN) | : 1                  |

### Rail transport

|   |                      |
|---|----------------------|
| Classification code (RID)   | : 5F                 |
| Special provisions (RID)  | : 190, 327, 344, 625 |
| Limited quantities (RID)  | : 1L                 |
| Excepted quantities (RID)   | : E0                 |
| Packing instructions (RID)  | : P207, LP200        |
| Special packing provisions (RID)  | : PP87, RR6, L2      |
| Mixed packing provisions (RID)  | : MP9                |
| Transport category (RID)  | : 2                  |
| Special provisions for carriage – Packages (RID)                        | : W14                |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW12          |
| Colis express (express parcels) (RID)                                   | : CE2                |
| Hazard identification number (RID)                                      | : 23                 |

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### VOC Directive (2004/42)

VOC content : 712 g/l

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |
| NOAEL  | No-Observed Adverse Effect Level  |
| NOEC   | No-Observed Effect Concentration  |
| OECD   | Organisation for Economic Co-operation and Development  |
| OEL    | Occupational Exposure Limit   |
| PBT    | Persistent Bioaccumulative Toxic  |
| PNEC   | Predicted No-Effect Concentration   |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS    | Safety Data Sheet   |
| STP    | Sewage treatment plant  |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Abbreviations and acronyms:

|         |  |
|---------|--|
| ThOD    | Theoretical oxygen demand (ThOD)         |
| TLM     | Median Tolerance Limit                   |
| VOC     | Volatile Organic Compounds               |
| CAS-No. | Chemical Abstract Service number         |
| N.O.S.  | Not Otherwise Specified                  |
| vPvB    | Very Persistent and Very Bioaccumulative |
| ED      | Endocrine disruptor                      |

### Full text of H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3   |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3   |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3   |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4   |
| Aerosol 1                 | Aerosol, Category 1   |
| Aquatic Chronic 2         | Hazardous to the aquatic environment – Chronic Hazard, Category 2   |
| Carc. 1B                  | Carcinogenicity, Category 1B  |
| EUH066                    | Repeated exposure may cause skin dryness or cracking.   |
| EUH208                    | Contains formaldehyde (50-00-0), reaction mass of: N, N'-Ethane-1,2-diylbis(decanamide); 12-Hydroxy-N-[2-[1-oxodecyl]amino]ethyl]octadecanamide; N, N'-Ethane-1,2-diylbis(12hydroxyoctadecanamide). May produce an allergic reaction. |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1   |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2   |
| Flam. Gas 1               | Flammable gases, Category 1   |
| Flam. Liq. 2              | Flammable liquids, Category 2   |
| Flam. Liq. 3              | Flammable liquids, Category 3   |
| H220                      | Extremely flammable gas.  |
| H222                      | Extremely flammable aerosol.  |
| H225                      | Highly flammable liquid and vapour.   |
| H226                      | Flammable liquid and vapour.  |
| H229                      | Pressurised container: May burst if heated.   |
| H280                      | Contains gas under pressure; may explode if heated.   |
| H301                      | Toxic if swallowed.   |
| H302                      | Harmful if swallowed.   |
| H311                      | Toxic in contact with skin.   |
| H314                      | Causes severe skin burns and eye damage.  |
| H315                      | Causes skin irritation.   |
| H317                      | May cause an allergic skin reaction.  |
| H318                      | Causes serious eye damage.  |
| H319                      | Causes serious eye irritation.  |
| H331                      | Toxic if inhaled.   |

# MARKER PAINT fluo colors

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H335                                | May cause respiratory irritation.                                      |
| H336                                | May cause drowsiness or dizziness.                                     |
| H341                                | Suspected of causing genetic defects.                                  |
| H350                                | May cause cancer.  |
| H411                                | Toxic to aquatic life with long lasting effects.                       |
| Muta. 2                             | Germ cell mutagenicity, Category 2                                     |
| Press. Gas (Liq.)                   | Gases under pressure : Liquefied gas                                   |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

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. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC. The products are governed by Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP); Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (in each case, as amended and replaced) and other applicable laws. It is an importers or downstream users responsibility to ensure compliance of product they import. An SDS provided in the official language(s) of a country is not a guarantee of compliance in that country.