



# Aqua Paint Marker

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 02/01/2024 Revision date: 28/11/2023 Supersedes version of: 21/03/2023 Version: 1.1

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

#### 1.1. Product identifier

Product name : Aqua Paint Marker  
Product code : BDS002728  
Vaporizer : Aerosol

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

##### 1.2.1. Relevant identified uses

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

##### 1.2.2. Uses advised against

No additional information available

#### 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	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 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  
Skin sensitisation, Category 1 H317  
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 an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



# Aqua Paint Marker

## Safety Data Sheet

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

	GHS02	GHS07
Signal word (CLP)	: Danger	
Contains	: Fatty acids, C14-18 and C16-18-unsatd., maleated; formaldehyde ...%; maleic anhydride	
Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H317 - May cause an allergic skin reaction.	
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/protective clothing/eye protection/face 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.	

### 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 is 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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37	30 - <50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (BE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	20 - <30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Fatty acids, C14-18 and C16-18-unsatd., maleated	CAS-No.: 85711-46-2 EC-No.: 288-306-2 REACH-no: 01-2119976378-19	0,05 - <0,3	Skin Irrit. 2, H315 Skin Sens. 1, H317
formaldehyde substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	< 0,05	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Skin Corr. 1B, H314 Skin Sens. 1, H317

# Aqua Paint Marker

## 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]
ethyl acrylate	CAS-No.: 140-88-5 EC-No.: 205-438-8 EC Index-No.: 607-032-00-X REACH-no: 01-2119459301-46	< 0,05	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 (ATE=1120 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
maleic anhydride substance with national workplace exposure limit(s) (BE)	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	< 0,05	Acute Tox. 4 (Oral), H302 (ATE=1090 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 EUH071

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
ethanol; ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	(50 ≤ C < 100) Eye Irrit. 2, H319
formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	(0,2 ≤ C ≤ 100) Skin Sens. 1, H317 (5 ≤ C < 25) Skin Irrit. 2, H315 (5 ≤ C < 25) Eye Irrit. 2, H319 (5 ≤ C ≤ 100) STOT SE 3, H335 (25 ≤ C ≤ 100) Skin Corr. 1B, H314
ethyl acrylate	CAS-No.: 140-88-5 EC-No.: 205-438-8 EC Index-No.: 607-032-00-X REACH-no: 01-2119459301-46	(5 ≤ C ≤ 100) Skin Irrit. 2, H315 (5 ≤ C ≤ 100) Eye Irrit. 2, H319 (5 ≤ C ≤ 100) STOT SE 3, H335
maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	(0,001 ≤ C ≤ 100) Skin Sens. 1A, H317

Product subject to CLP Article 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 : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention.

# Aqua Paint Marker

## Safety Data Sheet

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

First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Seek medical attention if irritation develops.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. 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 after skin contact	: May cause an allergic skin reaction.
-------------------------------------	--

### 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

#### 6.1.1. 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 contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. 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".

# Aqua Paint Marker

## 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	: Ensure good ventilation of the work station. 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 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

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

<b>dimethyl ether (115-10-6)</b>	
<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 11/05/2021
<b>ethanol; ethyl alcohol (64-17-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Alcool éthylique # Ethanol
OEL TWA	1907 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<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> 0,62 mg/m <sup>3</sup> (Limit value for the health care, funeral and embalming sectors until 11 July 2024)

# Aqua Paint Marker

## Safety Data Sheet

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

<b>formaldehyde (50-00-0)</b>	
	0,5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024) 0,3 ppm
BOEL STEL	0,74 mg/m <sup>3</sup> 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> 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 cancérigènes, 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 11/05/2021
<b>ethyl acrylate (140-88-5)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Ethylacrylate
IOEL TWA	21 mg/m <sup>3</sup> 5 ppm
IOEL STEL	42 mg/m <sup>3</sup> 10 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Acrylate d'éthyle # Ethylacrylaat
OEL TWA	21 mg/m <sup>3</sup> 5 ppm
OEL STEL	42 mg/m <sup>3</sup> 10 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

# Aqua Paint Marker

## Safety Data Sheet

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

### maleic anhydride (108-31-6)

#### Belgium - Occupational Exposure Limits

Local name	Anhydride maléique (vapeur et aerosol) # Maleïnezuuranhydride (damp en aërosol)
OEL TWA	0,01 mg/m <sup>3</sup>
	0,0025 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

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

#### DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	1894 mg/m <sup>3</sup>
--	------------------------

#### DNEL/DMEL (General population)

Long-term - systemic effects, inhalation	471 mg/m <sup>3</sup>
--	-----------------------

#### PNEC (Water)

PNEC aqua (freshwater)	0,155 mg/l
------------------------	------------

PNEC aqua (marine water)	0,016 mg/l
--------------------------	------------

PNEC aqua (intermittent, freshwater)	1549 mg/l
--------------------------------------	-----------

#### PNEC (Sediment)

PNEC sediment (freshwater)	0,681 mg/kg dwt
----------------------------	-----------------

PNEC sediment (marine water)	0,069 mg/kg dwt
------------------------------	-----------------

#### PNEC (Soil)

PNEC soil	0,045 mg/kg dwt
-----------	-----------------

#### PNEC (STP)

PNEC sewage treatment plant	160 mg/l
-----------------------------	----------

### ethanol; ethyl alcohol (64-17-5)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation	1900 mg/m <sup>3</sup>
-----------------------------------	------------------------

Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
--------------------------------------	--------------------------

Long-term - systemic effects, inhalation	950 mg/m <sup>3</sup>
--	-----------------------

#### DNEL/DMEL (General population)

Acute - local effects, inhalation	950 mg/m <sup>3</sup>
-----------------------------------	-----------------------

Long-term - systemic effects, oral	87 mg/kg bodyweight/day
------------------------------------	-------------------------

Long-term - systemic effects, inhalation	114 mg/m <sup>3</sup>
--	-----------------------

Long-term - systemic effects, dermal	206 mg/kg bodyweight/day
--------------------------------------	--------------------------

#### PNEC (Water)

PNEC aqua (freshwater)	0,96 mg/l
------------------------	-----------

PNEC aqua (marine water)	0,79 mg/l
--------------------------	-----------

# Aqua Paint Marker

## Safety Data Sheet

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

<b>ethanol; ethyl alcohol (64-17-5)</b>	
PNEC aqua (intermittent, freshwater)	2,75 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	3,6 mg/kg dwt
PNEC sediment (marine water)	2,9 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,63 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	0,72 g/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	580 mg/l
<b>Fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects,oral	1,67 mg/kg bodyweight/day
Long-term - systemic effects, dermal	1,67 mg/kg bodyweight/day
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	100 mg/l
<b>formaldehyde (50-00-0)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	0,75 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	240 mg/kg bodyweight/day
Long-term - local effects, dermal	37 µg/cm <sup>2</sup>
Long-term - systemic effects, inhalation	9 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,375 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects,oral	4,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	102 mg/kg bodyweight/day
Long-term - local effects, dermal	12 µg/cm <sup>2</sup>
Long-term - local effects, inhalation	0,1 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,44 mg/l
PNEC aqua (marine water)	0,44 mg/l
PNEC aqua (intermittent, freshwater)	4,44 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	2,3 mg/kg dwt
PNEC sediment (marine water)	2,3 mg/kg dwt



# Aqua Paint Marker

## Safety Data Sheet

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

<b>formaldehyde (50-00-0)</b>	
<b>PNEC (Soil)</b>	
PNEC soil	0,2 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,19 mg/l
<b>ethyl acrylate (140-88-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	42 mg/m <sup>3</sup>
Long-term - local effects, inhalation	21 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	2,72 µg/l
PNEC aqua (marine water)	0,27 µg/l
PNEC aqua (intermittent, freshwater)	0,011 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,0213 mg/kg dwt
PNEC sediment (marine water)	0,00213 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	1 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	0,01 g/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	10 mg/l
<b>maleic anhydride (108-31-6)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	0,2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,95 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,19 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,32 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	0,1 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,25
Acute - systemic effects, oral	0,1 mg/kg bodyweight/day
Long-term - systemic effects, oral	0,06 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,05 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,1 mg/kg bodyweight/day
Long-term - local effects, inhalation	0,08 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,075 mg/l

# Aqua Paint Marker

## Safety Data Sheet

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

<b>maleic anhydride (108-31-6)</b>	
PNEC aqua (marine water)	0,0075 mg/l
PNEC aqua (intermittent, freshwater)	0,75 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,06 mg/kg dwt
PNEC sediment (marine water)	0,006 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,01 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	6,67 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	4,46 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. 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.

### 8.2.2. Personal protection equipment

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

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

#### 8.2.2.2. 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. Neoprene gloves are recommended.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

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

#### 8.2.2.4. 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.

# Aqua Paint Marker

## Safety Data Sheet

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

### 8.2.3. 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	: See color cap.
Appearance	: DME propelled liquid.
Odour	: alcohol.
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	: 3,3 vol %
Upper explosion limit	: 24,1 vol %
Flash point	: -37 °C
Auto-ignition temperature	: 240 °C
Decomposition temperature	: Not available
pH	: 9,5 – 10,5
Viscosity, kinematic	: Not available
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: Not available
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

#### 9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : ≤ 50 %

#### 9.2.2. Other safety characteristics

VOC content : 555 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.

# Aqua Paint Marker

## Safety Data Sheet

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

### 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

**Acute toxicity (oral)** : Not classified (Based on available data, the classification criteria are not met)  
**Acute toxicity (dermal)** : Not classified (Based on available data, the classification criteria are not met)  
**Acute toxicity (inhalation)** : 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

#### ethanol; ethyl alcohol (64-17-5)

LD50 oral rat	15010 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	> 116,9 mg/l/4h

#### Fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

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

LD50 oral rat	100 mg/kg
LD50 dermal rabbit	300 mg/kg
LC50 Inhalation - Rat	> 20 mg/l

#### ethyl acrylate (140-88-5)

LD50 oral rat	1120 mg/kg bodyweight
LD50 dermal rat	3049 mg/kg bodyweight

#### maleic anhydride (108-31-6)

LD50 oral	1090 mg/kg bodyweight
LD50 dermal rabbit	2620 mg/kg bodyweight

**Skin corrosion/irritation** : Not classified (Based on available data, the classification criteria are not met)  
pH: 9,5 – 10,5

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

pH	2,8 – 4
----	---------

**Serious eye damage/irritation** : Not classified (Based on available data, the classification criteria are not met)  
pH: 9,5 – 10,5

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

pH	2,8 – 4
----	---------

**Respiratory or skin sensitisation** : May cause an allergic skin reaction.

**Germ cell mutagenicity** : Not classified (Based on available data, the classification criteria are not met)

**Carcinogenicity** : Not classified (Based on available data, the classification criteria are not met)

#### ethyl acrylate (140-88-5)

IARC group	2B - Possibly carcinogenic to humans
------------	--------------------------------------

**Reproductive toxicity** : Not classified (Based on available data, the classification criteria are not met)

# Aqua Paint Marker

## Safety Data Sheet

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

**STOT-single exposure** : Not classified (Based on available data, the classification criteria are not met)

### ethyl acrylate (140-88-5)

STOT-single exposure : May cause respiratory irritation.

**STOT-repeated exposure** : Not classified (Based on available data, the classification criteria are not met)

### ethanol; ethyl alcohol (64-17-5)

NOAEL (subchronic, oral, animal/female, 90 days) : > 9400 mg/kg bodyweight

### Fatty acids, C14-18 and C16-18-unsatd., maleated (85711-46-2)

NOAEL (oral, rat, 90 days) : 1000 mg/kg bodyweight

### maleic anhydride (108-31-6)

STOT-repeated exposure : Causes damage to organs (respiratory system) through prolonged or repeated exposure (inhalation).

**Aspiration hazard** : Not classified (Based on available data, the classification criteria are not met)

### Aqua Paint Marker

Vaporizer : Aerosol

### ethyl acrylate (140-88-5)

Viscosity, kinematic : 0,579 mm<sup>2</sup>/s

## 11.2. Information on other hazards

### 11.2.1. 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 is 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 %

### 11.2.2. Other information

No additional information available

## 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)

Not rapidly degradable

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

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

### ethanol; ethyl alcohol (64-17-5)

LC50 - Fish [1] : 14,2 g/l

EC50 - Other aquatic organisms [1] : 5012 mg/l

ErC50 algae : 275 mg/l

NOEC (chronic) : 9,6 mg/l

# Aqua Paint Marker

## Safety Data Sheet

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

<b>formaldehyde (50-00-0)</b>	
LC50 - Fish [1]	6,7 mg/l <i>Morone saxatilis</i>
EC50 - Crustacea [1]	5,8 mg/l <i>Daphnia pulex</i>
NOEC (chronic)	≥ 6,4 mg/l <i>Daphnia magna</i> (21 d)
NOEC chronic fish	≥ 48 mg/l <i>Oryzias latipes</i> (28 d)

<b>ethyl acrylate (140-88-5)</b>	
LC50 - Fish [1]	4,6 mg/l <i>Oncorhynchus mykiss</i>
EC50 - Crustacea [1]	7,9 mg/l <i>Daphnia magna</i>
EC50 72h - Algae [1]	4,5 mg/l <i>Pseudokirchneriella subcapitata</i>

<b>maleic anhydride (108-31-6)</b>	
LC50 - Fish [1]	75 mg/l <i>Lepomis macrochirus</i>
EC50 - Crustacea [1]	42,81 mg/l <i>Daphnia magna</i>
EC50 72h - Algae [1]	74,35 mg/l <i>Raphidocelis subcapitata</i>

### 12.2. Persistence and degradability

#### Aqua Paint Marker

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

### 12.3. Bioaccumulative potential

#### Aqua Paint Marker

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

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

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

#### ethanol; ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0,32
---	-------

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

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

#### ethyl acrylate (140-88-5)

Partition coefficient n-octanol/water (Log Pow)	1,18
---	------

#### maleic anhydride (108-31-6)

Partition coefficient n-octanol/water (Log Pow)	-2,61
---	-------

### 12.4. Mobility in soil

#### ethyl acrylate (140-88-5)

Mobility in soil	3,9 – 85 Source: ECHA
------------------	-----------------------

### 12.5. Results of PBT and vPvB assessment

#### Aqua Paint Marker

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

# Aqua Paint Marker

## Safety Data Sheet

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

### 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 is 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) : 1 (Fluorinated greenhouse gases - (EC) No 517/2014)






## 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

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 Marine pollutant: No	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

# Aqua Paint Marker

## Safety Data Sheet

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

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
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
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
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



# Aqua Paint Marker

## Safety Data Sheet

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

### SECTION 15: Regulatory information

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

##### 15.1.1. 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)

###### VOC Directive (2004/42)

VOC content : 555 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)

##### 15.1.2. National regulations

No additional information available

#### 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

# Aqua Paint Marker

## Safety Data Sheet

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

<b>Abbreviations and acronyms:</b>	
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
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 disrupting properties

<b>Full text of H- and EUH-statements:</b>	
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 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
EUH071	Corrosive to the respiratory tract.
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
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.

# Aqua Paint Marker

## Safety Data Sheet

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

Full text of H- and EUH-statements:	
H225	Highly 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.
H312	Harmful 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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Resp. Sens. 1	Respiratory sensitisation, Category 1
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
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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.