

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 1 / 14

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: ANT.FLEXY.BIAN
Product name FLEXY Antifouling (White)

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

Intended use Antifouling paint

Identified Uses Industrial Professional Consumer
Paint - - - -

1.3. Details of the supplier of the safety data sheet

Name MARLIN SRL

Full address Via Caduti sul Lavoro 4

District and Country 34015 Muggia (TS)

Italia

Tel. 040232588 Fax 040232688

e-mail address of the competent person

responsible for the Safety Data Sheet information@marlinpaint.com

1.4. Emergency telephone number

For urgent inquiries refer to Please contact the emergency nuer of the nearest antipoison centre in your

country.

Germany: +49 30 192 40 Spain: +34 156 20420 Croatia: +3851 2348 342 France: +33 140 054 848 Italy: +39 02 6610 1029

For more inormation contact MARLIN SRL at: +39 040 232588

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour. Hazardous to the aquatic environment, acute H400 Very toxic to aquatic life.

toxicity, category 1

Hazardous to the aquatic environment, chronic H410 Very toxic to aquatic life with long lasting effects.

toxicity, category 1

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 2 / 14

SECTION 2. Hazards identification

Signal words: Warning

Hazard statements:

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects. EUH032 Contact with acids liberates very toxic gas.

Precautionary statements:

P501 Dispose of contents / container according to local legislation.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P370+P378 In case of fire: use carbon dioxide, foam, chemical powder to extinguish.

P273 Avoid release to the environment.

Contains: COPPER THIOCYANATE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

2-METHOXY-1-METHYLETHYL ACETATE

CAS 108-65-6 $25 \le x < 50$ Flam. Liq. 3 H226

EC 203-603-9 INDEX 607-195-00-7 REACH Reg. 01-2119475791-29 COPPER THIOCYANATE

CAS 1111-67-7 $10 \le x < 25$ Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH032,

Classification note according to Annex VI to the CLP Regulation: A

EC 214-183-1 INDEX 615-032-00-4 REACH Reg. 01-2120761603-56 1-METHOXY-2-PROPANOL

CAS 107-98-2 5 ≤ x < 20 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 INDEX 603-064-00-3 REACH Reg. 01-2119457435-35

ZINC OXIDE

CAS 1314-13-2 2,5 ≤ x < 10 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 215-222-5 INDEX 030-013-00-7

ZINC PYRITHIONE

CAS 13463-41-7 0,025 ≤ x < 0,25 Repr. 1B H360D, Acute Tox. 3 H301, Acute Tox. 4 H332, STOT RE 1 H372,

Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10

EC 236-671-3 Eye Irrit. 2 H319: ≥ 10%

INDEX 613-333-00-7 LD50 Oral: 221 mg/kg, STA Inhalation mists/powders: 1,5 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 3 / 14

SECTION 4. First aid measures

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 4 / 14

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

| J Deutscl | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwert | |
|---|--|--|
| | Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur F | ² rüfung |
| | gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 | |
| P España | Límites de exposición profesional para agentes químicos en España 2021 | |
| A France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 9 | 84 - INRS |
| C Ελλάδα | Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις | ς διατάξεις των |
| | οδηγιών 2017/2398/EE, 2019/130/EE και 2019/983/EE «για την τροποποίηση της α | οδηγίας |
| | 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που | συνδέονται με |
| | την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"» | |
| Italia | Decreto Legislativo 9 Aprile 2008, n.81 | |
| R United I | n EH40/2005 Workplace exposure limits (Fourth Edition 2020) | |
| OEL EL | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2019/ | tive (EU) |
| | 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; | |
| | 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. | |
| TLV-AC | ACGIH 2021 | |
| RCP TL | ACGIH TLVs and BEIs – Appendix H | |
| R France Eλλάδα Italia R United I OEL EL | Límites de exposición profesional para agentes químicos en España 2021 Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 98 Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της ο 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"» Decreto Legislativo 9 Aprile 2008, n.81 EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2021 | ς διατάξειο οδηγίας ι συνδέοντ ctive (EU) |

| COPPER THIOCYANATE | | | | | | | | | |
|-----------------------|----------------|----------------|-------|---------|----------|--------------|----------------|---------|----------------|
| | | | | | | | | | |
| Threshold Limit Value | | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15 | min | Remarks | / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| OEL | EU | 0,01 | | | | INHAL | | | |
| Predicted no-effe | ect concentrat | tion - PNEC | | | | | | | |
| Normal value | for fresh wat | er sediment | | | | | 87 | mg/kg | |
| Normal value | for marine wa | ater sediment | | | | | 676 | mg/kg | |
| Normal value | of STP micro | organisms | | | | | 0,23 | mg/l | |
| Normal value | for the terres | trial compartn | nent | | | | 65 | mg/kg | |
| Health - Derived | no-effect leve | el - DNEL / DN | /IEL | | | | | | |
| | Eff | ects on consu | mers | | | Effects on v | vorkers | | |
| Route of expo | osure Ac | ute Acu | ıte | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | loc | al sys | temic | local | systemic | local | systemic | local | systemic |
| Skin | | | | | | | | | 137 mg/kg/d |

| | | | | ZINC P | YRITHIONE | |
|-------------------|---------|--------|-----|---------|-----------|------------------------|
| Threshold Limit \ | √alue | | | | | |
| Type | Country | TWA/8h | | STEL/15 | min | Remarks / Observations |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| RCP TLV | | 2,5 | | | | |



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 5 / 14

SECTION 8. Exposure controls/personal protection

| ווכ | | • • • | . / | • |
|-----|--|-------|-----|---|
| | | | | |

| 2-METHOXY-1-METHYLETHYL ACETATE | | | | | | | | | |
|---------------------------------|-----------------|----------------|-------|----------|------------|---------------|--------------|---------|----------|
| Threshold Limit \ | √alue | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15i | STEL/15min | | Observations | | |
| | <u> </u> | mg/m3 | ppm | mg/m3 | ppm | | | | |
| AGW | DEU | 270 | 50 | 270 | 50 | | | | |
| MAK | DEU | 270 | 50 | 270 | 50 | | | | |
| VLA | ESP | 275 | 50 | 550 | 100 | SKIN | | | |
| VLEP | FRA | 275 | 50 | 550 | 100 | SKIN | | | |
| TLV | GRC | 275 | 50 | 550 | 100 | | | | |
| VLEP | ITA | 275 | 50 | 550 | 100 | SKIN | | | |
| WEL | GBR | 274 | 50 | 548 | 100 | SKIN | | | |
| OEL | EU | 275 | 50 | 550 | 100 | SKIN | | | |
| Predicted no-effe | ect concentrati | on - PNEC | | | | | | | |
| Normal value | for fresh wate | r sediment | | | | | 3,29 | mg/kg | |
| Normal value | for marine wa | ter sediment | | | | | 0,329 | mg/kg | |
| Normal value | for water, inte | rmittent relea | ase | | | | 6,35 | mg/l | |
| Normal value | of STP micro | organisms | | | | | 100 | mg/l | |
| Normal value | for the terrest | rial compartr | nent | | | | 0,29 | mg/kg | |
| Health - Derived | no-effect leve | - DNEL / DI | MEL | | | | | | |
| | Effe | cts on consu | ımers | | | Effects on wo | orkers | | |
| Route of expo | osure Acu | ite Aci | ute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | loca | al sys | temic | local | systemic | local | systemic | local | systemic |
| Oral | | | | | 36 | | | | |
| | | | | | mg/kg bw/d | | | | |
| Inhalation | 550 | | | 33 | 33 | 550 | | | 275 |
| | | | | mg/m3 | mg/m3 | mg/m3 | | | mg/m3 |
| Skin | | | | | 320 | | | | 796 |
| | | | | | mg/kg bw/d | | | | mg/kg |
| | | | | | | | | | bw/d |

| 1 1111 22 | , , | | | I-IVIE I HUX | 7-2-PROPANO | L | | | |
|------------------------------|-------------------|---------------|--------|--------------|-------------|--------------|--------------|---------|----------|
| hreshold Limit V | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | | Remarks / | Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| AGW | DEU | 370 | 100 | 740 | 200 | | | | |
| MAK | DEU | 370 | 100 | 740 | 200 | | | | |
| VLA | ESP | 375 | 100 | 568 | 150 | SKIN | | | |
| VLEP | FRA | 188 | 50 | 375 | 100 | SKIN | | | |
| TLV | GRC | 360 | 100 | 1080 | 300 | | | | |
| VLEP | ITA | 375 | 100 | 568 | 150 | SKIN | | | |
| WEL | GBR | 375 | 100 | 560 | 150 | SKIN | | | |
| OEL | EU | 375 | 100 | 568 | 150 | SKIN | | | |
| TLV-ACGIH | | 184 | 50 | 368 | 100 | | | | |
| redicted no-effe | ect concentration | on - PNEC | | | | | | | |
| Normal value in fresh water | | | | | | | 10 | mg/l | |
| Normal value in marine water | | | | | | | 1 | mg/l | |
| Normal value | for fresh water | r sediment | | | | | 52,3 | mg/kg | |
| Normal value | for marine wat | ter sedimen | t | | | | 5,2 | mg/kg | |
| Normal value | for water, inter | rmittent rele | ase | | | | 100 | mg/l | |
| Normal value | of STP microc | rganisms | | | | | 100 | mg/l | |
| Normal value | for the terrestr | ial comparti | ment | | | | 4,59 | mg/kg | |
| lealth - Derived | no-effect level | - DNEL / DI | MEL | | | | | | |
| | Effe | cts on consi | umers | | | Effects on w | orkers | | |
| Route of expo | sure Acu | te Ac | ute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | loca | ıl sys | stemic | local | systemic | local | systemic | local | systemic |
| Oral | | | | | 33 | | | | |
| | | | | | mg/kg bw/d | | | | |
| Inhalation | | | | | 43,9 | 553,5 | | | 369 |
| | | | | | mg/m3 | mg/m3 | | | mg/m3 |
| Skin | | | | | 78 | - | | | 183 |
| | | | | | mg/kg bw/d | | | | mg/kg |
| | | | | | <u> </u> | | | | bw/d |



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 6 / 14

SECTION 8. Exposure controls/personal protection

.../>>

| ZINC OXIDE | | | | | | | | |
|-------------------|-----------------------|--------|-----|---------|-----|------------------------|--|--|
| Threshold Limit V | Threshold Limit Value | | | | | | | |
| Type | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| MAK | DEU | 2 | | 4 | | INHAL | | |
| MAK | DEU | 0,1 | | 0,4 | | RESP | | |
| VLA | ESP | 2 | | 10 | | | | |
| VLEP | FRA | 5 | | | | | | |
| TLV | GRC | 5 | | 10 | | | | |
| TLV-ACGIH | | 2 | | 10 | | RESP | | |

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

If the product may or must come into contact or react with acids, suitable technical and/or organisational measures should be taken to prevent the development of toxic and/or inflammable gases.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--------------------------------|--------------------|--|
| Appearance | liquid | |
| Colour | white | |
| Odour | typical of solvent | |
| Melting point / freezing point | Not available | Remark:data not determinable |
| Initial boiling point | Not available | |
| Boiling range | 135-145°C | Substance:XYLENE (MIXTURE OF ISOMERS) |
| Flammability | flammable liquid | , |
| Lower explosive limit | 0,9 % (v/v) | Substance:XYLENE (MIXTURE OF ISOMERS) |
| Upper explosive limit | 7 % (v/v) | Substance: XYLENE (MIXTURE OF ISOMERS) |
| Flash point | 29 °C | |
| Auto-ignition temperature | 333 °C | Substance:2-METHOXY-1-METHYLETHYL |
| • | | ACETATE |
| pH | Not available | Reason for missing data:substance/mixture is |
| | | |



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 7 / 14

SECTION 9. Physical and chemical properties

... / >>

Kinematic viscosity

Solubility

Not available
Not available

Partition coefficient: n-octanol/water Not applicable Vapour pressure 3,5-6 hPa

Density and/or relative density 1,25 - 1,30 kg/l Relative vapour density Not available Particle characteristics Not applicable

non-soluble (in water)

Reason for missing data:substance/mixture is non-soluble (in water)

Substance:XYLENE (MIXTURE OF ISOMERS)

Temperature: 20 °C Temperature: 20 °C

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

 Total solids (250°C / 482°F)
 53,00 %

 VOC (Directive 2010/75/EU)
 47,00 %

 VOC (volatile carbon)
 25,48 %

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 8 / 14

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

COPPER THIOCYANATE

LD50 (Oral): > 5000 mg/kg ratto
LD50 (Dermal): > 2000 mg/kg ratto
LC50 (Inhalation mists/powders): > 5,86 mg/l ratto

ZINC PYRITHIONE

LD50 (Oral): 221 mg/kg ratto
LD50 (Dermal): > 2000 mg/kg ratto
LC50 (Inhalation mists/powders): 0,14 mg/l/4h ratto

STA (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

TITANIUM DIOXIDE

LD50 (Oral): > 10000 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral): 8530 mg/kg Rat > 5000 mg/kg Rat

1-METHOXY-2-PROPANOL

 LD50 (Oral):
 5300 mg/kg Rat

 LD50 (Dermal):
 13000 mg/kg Rabbit

 LC50 (Inhalation vapours):
 54,6 mg/l/4h Rat

ZINC OXIDE



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 9 / 14

SECTION 11. Toxicological information

.../>

LD50 (Oral): LC50 (Inhalation mists/powders): 15000 mg/kg ratto > 5,7 mg/l/4h ratto

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

E١



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 10 / 14

SECTION 11. Toxicological information

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

COPPER THIOCYANATE

 LC50 - for Fish
 > 0,07 mg/l/96h

 EC50 - for Crustacea
 > 1,18 mg/l/48h

 Chronic NOEC for Algae / Aquatic Plants
 0,164 mg/l

ZINC PYRITHIONE

LC50 - for Fish 0,0026 mg/l/96h

EC50 - for Crustacea 0,0082 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 0,00088 mg/l/72h

EC10 for Algae / Aquatic Plants 0,00068 mg/l/72h skeletonema costatum

ZINC OXIDE

LC50 - for Fish 1,1 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1,7 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,14 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for Fish 0,53 mg/l
Chronic NOEC for Algae / Aquatic Plants 0,024 mg/l

12.2. Persistence and degradability

ZINC PYRITHIONE Rapidly degradable

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ZINC OXIDE

Solubility in water 2,9 mg/l

NOT rapidly degradable

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

ZINC OXIDE

BCF > 175

E١



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 11 / 14

SECTION 12. Ecological information

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263

14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: III

E١



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 12 / 14

SECTION 14. Transport information .../>

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: IMDG: EMS: F-E, <u>S-E</u>

 IMDG:
 EMS: F-E, S-E
 Limited Quantities: 5 L

 IATA:
 Cargo:
 Maximum quantity: 220 L
 Packaging instructions: 366

Pass.: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3, A72, A192

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c-E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



MARLIN SRL

FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 13 / 14

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3
Repr. 1B Reproductive toxicity, category 1B
Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Eye Dam. 1 Serious eye damage, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H226 Flammable liquid and vapour. H360D May damage the unborn child.

H301 Toxic if swallowed. H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
EUH032 Contact with acids liberates very toxic gas.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament



FLEXY Antifouling (White)

Revision nr.1 Dated 21/02/2022 First compilation Printed on 20/03/2023 Page n. 14 / 14

SECTION 16. Other information

- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- FCHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.