



**VR-EA** 

EN

| Safety Data Sheet                                     |  |  |  |  |
|---|--|--|--|--|
| According to Annex II to REACH - Regulation 2015/830  |  |  |  |  |
|   |  |  |  |  |
| SECTION 1. Identification of the sub                  | stance/mixture and of the company/undertaking                                |  |  |  |
| 1.1. Product identifier                               |  |  |  |  |
| Code:   | HH0106000050   |  |  |  |
| Product name  | FFX VR-EA COMP A   |  |  |  |
| Chemical name and synonym                             | Mastic based epoxy acrylate resin  |  |  |  |
| 1.2. Relevant identified uses of the substance or n   | nixture and uses advised against   |  |  |  |
| Intended use  | Bi-component injection system for chemical anchor on construction materials. |  |  |  |
| 1.3. Details of the supplier of the safety data sheet | t  |  |  |  |
| Name  | FFX Folkestone Fixings   |  |  |  |
| Full address  | Dyna House, Lympne Ind. Est, Lympne,   |  |  |  |
| District and Country                                  | Kent, CT21 4LR   |  |  |  |
|   | Tel.+44 1303 847 787   |  |  |  |
| e-mail address  | technical@ffx.co.uk  |  |  |  |
| 1.4. Emergency telephone number                       |  |  |  |  |
|   |  |  |  |  |
| For urgent inquiries refer to                         | Tel. +44 1303 847 787 (Monday-Friday 08h30-17h00)                            |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |

# **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 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of these sheets.

| Hazard classification and indication:         |      |  |
|---|------|--|
| Eye irritation, category 2                    | H319 | Causes serious eye irritation.                     |
| Skin irritation, category 2                   | H315 | Causes skin irritation.                            |
| Skin sensitization, category 1                | H317 | May cause an allergic skin reaction.               |
| Hazardous to the aquatic environment, chronic | H412 | Harmful to aquatic life with long lasting effects. |
| toxicity, category 3                          |      |  |

#### 2.2. Label elements

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

Hazard pictograms:



Signal words:

Warning

Hazard statements:H319Causes serious eye irritation.H315Causes skin irritation.H317May cause an allergic skin reaction.



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SECTION 2. Hazards identification .../>> H412 Harmful to aquatic life with long lasting effects. Precautionary statements: If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P280 Wear protective gloves / eye protection / face protection. P302+P352 IF ON SKIN: wash with plenty of water / ... P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P501 Dispose of contents/container in accordance with national regulations. Contains: 2-Hydroxyethyl methacrylate Ethylene dimethacrylate Methacrylic acid, monoester with propane 1,2 - diol 2.3. Other hazards On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%. **SECTION 3. Composition/information on ingredients** 3.2. Mixtures Contains: Identification x = Conc. % Classification 1272/2008 (CLP) 2-Hydroxyethyl methacrylate Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, CAS 868-77-9 5 ≤ x < 11 Classification note according to Annex VI to the CLP Regulation: D FC 212-782-2 INDEX 607-124-00-X 01-2119490169-29 Reg. no. Vinyltoluene CAS 25013-15-4 5≤x<9 Flam. Liq. 3 H226, Acute Tox. 4 H332, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 EC 246-562-2 INDEX Reg. no. 01-2119622074-50 Ethylene dimethacrylate CAS 97-90-5  $1 \le x \le 5$ STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D EC 202-617-2 INDEX 607-114-00-5 Reg. no. 01-2119965172-38 Methacrylic acid, monoester with propane 1,2 - diol 27813-02-1 1≤x<5 Eye Irrit. 2 H319, Skin Sens. 1 H317 CAS EC 248-666-3 INDEX Reg. no. 01-2119490226-37 The full wording of hazard (H) phrases is given in section 16 of the sheet.

Quartz (SiO2) - CAS 14808-60-7 - C%: >=50 - <70:

The quartz contained in the product is classified as non-hazardous. Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

# **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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.





# SECTION 4. First aid measures ... />>

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

# 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 The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE 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.

#### 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 13.

#### 6.4. Reference to other sections

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

# **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



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### SECTION 7. Handling and storage ..../>>

Store only in the original container. Store in a 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.

Store in a well ventilated place, storage range temperature between 5°C and 30°C. Keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition. Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity.

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

Information not available

# **SECTION 8. Exposure controls/personal protection**

Normal value for the terrestrial compartment

#### 8.1. Control parameters

Regulatory References:

TLV-ACGIH ACGIH 2018

|   |   |                        |      | 2-Hydroxyet             | thyl methacryla | ate             |             |                    |               |
|---|---|------------------------|------|-------------------------|-----------------|-----------------|-------------|--------------------|---------------|
| Predicted no-effect co  | 이 가지 하는 것은 것은 문화한 것이다.                    | n - PNEC               | :    |                         |                 |                 |             |                    |               |
| Normal value in fresh   | n water                                   |                        |      |                         |                 |                 | 0,482       | mg/l               |               |
| Normal value in mari  | ne water                                  |                        |      |                         |                 |                 | 0,482       | mg/l               |               |
| Normal value for fres   |   |                        |      |                         |                 |                 | 3,79        | mg/kg/d            |               |
| Normal value for mar  | ine water s                               | sediment               |      |                         |                 |                 | 3,79        | mg/kg/d            |               |
| Normal value for wat  |   |                        | se   |                         |                 |                 | 1           | mg/l               |               |
| Normal value of STP   |   |                        |      |                         |                 |                 | 10          | mg/l               |               |
| Normal value for the  |   |                        |      |                         |                 |                 | 0,476       | mg/kg/d            |               |
| Health - Derived no-eff   | ect level -                               | DNEL / I               | DMEL |                         |                 |                 |             |                    |               |
|   | Effects                                   | on consu               | mers |                         |                 | Effects on work |             |                    |               |
| Route of exposure   | Acute                                     | Acu                    | te   | Chronic                 | Chronic         | Acute Local     | Acute       | Chronic            | Chronic       |
|   | local                                     | syst                   | emic | local                   | systemic        |                 | systemic    | local              | systemic      |
| Oral  |   |                        |      |                         | 0,83            |                 |             |                    |               |
|   |   |                        |      |                         | mg/kg bw/d      |                 |             |                    |               |
| Inhalation  |   |                        |      |                         | 2,9             |                 |             |                    | 4,9           |
| 17 <u>12 19 19 19 19 19</u>   |   |                        |      |                         | mg/m3           |                 |             |                    | mg/m3         |
| Skin  |   |                        |      |                         | 0,83            |                 |             |                    | 1,3           |
|   |   |                        |      |                         | mg/kg/d         |                 |             |                    | mg/kg<br>bw/d |
|   | <b>,</b> .                                | ™A/8h<br>ng/m3         | ppm  | Vin<br>STEL/15<br>mg/m3 | ppm             |                 |             |                    |               |
| TLV-ACGIH   |   |                        | 50   |                         | 100             |                 |             |                    |               |
| Predicted no-effect co  | acontratio                                |                        |      | Ethylene                | dimethacrylate  |                 |             |                    |               |
| Normal value in fresh   |   | II - FNEC              |      |                         |                 |                 | 0,139       | mg/l               |               |
|   |   |                        |      |                         |                 |                 | 0,133       | mg/l               |               |
|   | no water                                  |                        |      |                         |                 |                 |             | -                  |               |
| Normal value in mari  |   | diment                 |      |                         |                 |                 | 16          | malkald            |               |
| Normal value in mari<br>Normal value for fres                         | h water se                                |                        |      |                         |                 |                 | 1,6<br>0.16 | mg/kg/d<br>ma/ka/d |               |
| Normal value in mari<br>Normal value for fres<br>Normal value for mar | h water se<br>ine water s                 | sediment               | \$9  |                         |                 |                 | 0,16        | mg/kg/d            |               |
| Normal value in mari<br>Normal value for fres                         | h water se<br>ine water s<br>er, intermit | sediment<br>tent relea | se   |                         |                 |                 |             |                    |               |

|                   | Effects or     | n consumers       |                  |                     | Effects on wor | kers              |                  |                     |
|-------------------|----------------|-------------------|------------------|---------------------|----------------|-------------------|------------------|---------------------|
| Route of exposure | Acute<br>local | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic | Acute Local    | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic |
| Oral              |                |                   |                  | 0,83<br>mg/kg bw/d  |                |                   |                  |                     |
| Inhalation        |                |                   |                  | 1,45<br>mg/m3       |                |                   |                  | 2,45<br>mg/m3       |
| Skin              |                |                   |                  | 0,83<br>mg/kg bw/d  |                |                   |                  | 1,3<br>mg/kg        |
|                   |                |                   |                  |                     |                |                   |                  | bw/d                |

0,239

mg/kg/d



#### SECTION 8. Exposure controls/personal protection ..../>>

#### Methacrylic acid, monoester with propane 1,2 - diol

|                       |                |             | ylic acid, mono | bester with prop | bane 1,2 - dioi |          |         |          |
|-----------------------|----------------|-------------|-----------------|------------------|-----------------|----------|---------|----------|
| dicted no-effect cor  | ncentration    | - PNEC      |                 |                  |                 |          |         |          |
| Normal value in fresh | n water        |             |                 |                  |                 | 0,9      | mg/l    |          |
| Normal value in marii | ne water       |             |                 |                  |                 | 0,9      | mg/l    |          |
| Normal value for fres | h water sedi   | iment       |                 |                  |                 | 6,28     | mg/kg/d |          |
| Normal value for mar  | ine water se   | diment      |                 |                  |                 | 6,28     | mg/kg/d |          |
| Normal value for wate | er, intermitte | ent release |                 |                  |                 | 0,97     | mg/l    |          |
| Normal value of STP   | microorgan     | isms        |                 |                  |                 | 10       | mg/l    |          |
| Normal value for the  | terrestrial co | ompartment  |                 |                  |                 | 0,72     | mg/kg/d |          |
| alth - Derived no-eff | ect level - D  | NEL / DMEL  |                 |                  |                 |          |         |          |
|                       | Effects o      | n consumers |                 |                  | Effects on wor  | kers     |         |          |
| Route of exposure     | Acute          | Acute       | Chronic         | Chronic          | Acute Local     | Acute    | Chronic | Chronic  |
|                       | local          | systemic    | local           | systemic         |                 | systemic | local   | systemic |
| Oral                  |                |             |                 | 2,5              |                 |          |         |          |
|                       |                |             |                 | mg/kg bw/d       |                 |          |         |          |
| Inhalation            |                |             |                 | 8,8              |                 |          |         | 14,7     |
|                       |                |             |                 | mg/m3            |                 |          |         | mg/m3    |
| Skin                  |                |             |                 | 2,5              |                 |          |         | 4,2      |
|                       |                |             |                 | mg/kg bw/d       |                 |          |         | mg/kg    |
|                       |                |             |                 |                  |                 |          |         | bw/d     |

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.

Quartz (SiO2):

The quartz contained in the product is classified as non-hazardous. Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

#### 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.

Provide an emergency shower with face and eye wash station.

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 II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

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

| Appearance | paste |
|------------|-------|
| Colour     | cream |



characteristic

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#### ... />> **SECTION 9.** Physical and chemical properties

| Odour                                  |
|--|
| Odour threshold                        |
| рН                                     |
| Melting point / freezing point         |
| Initial boiling point                  |
| Boiling range                          |
| Flash point                            |
| Evaporation Rate                       |
| Flammability of solids and gases       |
| Lower inflammability limit             |
| Upper inflammability limit             |
| Lower explosive limit                  |
| Upper explosive limit                  |
| Vapour pressure                        |
| Vapour density                         |
| Relative density                       |
| Solubility                             |
| Partition coefficient: n-octanol/water |
| Auto-ignition temperature              |
| Decomposition temperature              |
| Viscosity                              |
| Explosive properties                   |
| Oxidising properties                   |

Not available 1,6 - 1,8 kg/l insoluble in water Not available Not available Not available Not available Not available Not available

#### 9.2. Other information

Information not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

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

To avoid the exposure on the sunlight.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Information not available

#### 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.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information



# VR-EA COMP A

> 20 mg/l

5564 mg/kg RAT

> 5000 mg/kg RBT

> 8700 mg/kg RAT

> 2000 mg/kg RAT

Not classified (no significant component) Not classified (no significant component) Revision nr.7 Dated 15/05/2019 Printed on 16/05/2019 Page n. 7 / 11 Replaced revision:6 (Dated 21/08/2017) EN

### SECTION 11. Toxicological information .../>>

Information not available

#### Information on likely routes of exposure

Information not available

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

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

> 2-Hydroxyethyl methacrylate LD50 (Oral) LD50 (Dermal)

Ethylene dimethacrylate LD50 (Oral) LD50 (Dermal)

Methacrylic acid, monoester with propane 1,2 - diolLD50 (Oral)> 2000 mg/kg RATLD50 (Dermal)> 5000 mg/kg RBT

Vinyl toluene LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

3680 mg/kg RAT > 4990 mg/kg RBT 3535 ppm/4h RAT

#### SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin\_

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class



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# SECTION 11. Toxicological information .../>>

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

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

#### 12.1. Toxicity

| 2-Hydroxyethyl methacrylate<br>LC50 - for Fish<br>EC50 - for Crustacea<br>EC50 - for Algae / Aquatic Plants<br>Chronic NOEC for Fish<br>Chronic NOEC for Crustacea<br>Chronic NOEC for Algae / Aquatic Plants  | <ul> <li>&gt; 100 mg/l/96h (OECD TG 203)</li> <li>&gt; 380 mg/l/48h</li> <li>836 mg/l/72h</li> <li>&lt; 100 mg/l (OECD TG 211)</li> <li>24,1 mg/l</li> <li>400 mg/l 72 h</li> </ul> |
|--|---|
| Ethylene dimethacrylate<br>LC50 - for Fish<br>EC50 - for Crustacea<br>EC50 - for Algae / Aquatic Plants<br>Chronic NOEC for Crustacea<br>Chronic NOEC for Algae / Aquatic Plants   | > 15,95 mg/l/96h<br>> 44,9 mg/l/48h<br>> 17,3 mg/l/72h<br>> 7,22 mg/l<br>> 6,93 mg/l  |
| Methacrylic acid, monoester with propane 1,2 - diol<br>LC50 - for Fish<br>EC50 - for Crustacea<br>EC50 - for Algae / Aquatic Plants<br>Chronic NOEC for Crustacea  | > 493 mg/l/96h<br>> 143 mg/l/48h<br>> 97,2 mg/l/72h<br>> 45,2 mg/l  |
| Vinyl toluene<br>LC50 - for Fish<br>EC50 - for Crustacea<br>EC50 - for Algae / Aquatic Plants<br>EC10 for Algae / Aquatic Plants   | 5,2 mg/l/96h<br>9,3 mg/l/48h<br>0,319 mg/l/72h<br>0,25 mg/l/72h   |
| 12.2. Persistence and degradability  |   |
|  |   |
| 2-Hydroxyethyl methacrylate<br>Rapidly degradable  | Readily biodegradable in water.   |
|  | Readily biodegradable in water.   |
| Rapidly degradable<br>Ethylene dimethacrylate  | Readily biodegradable in water.   |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol   | Readily biodegradable in water.   |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol<br>Rapidly degradable<br>Vinyl toluene  | Readily biodegradable in water.   |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol<br>Rapidly degradable<br>Vinyl toluene<br>NOT rapidly degradable  | Readily biodegradable in water.   |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol<br>Rapidly degradable<br>Vinyl toluene<br>NOT rapidly degradable<br><b>12.3. Bioaccumulative potential</b><br>2-Hydroxyethyl methacrylate   |   |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol<br>Rapidly degradable<br>Vinyl toluene<br>NOT rapidly degradable<br><b>12.3. Bioaccumulative potential</b><br>2-Hydroxyethyl methacrylate<br>Partition coefficient: n-octanol/water<br>Ethylene dimethacrylate  | 0,42 Log Kow  |
| Rapidly degradable<br>Ethylene dimethacrylate<br>Rapidly degradable<br>Methacrylic acid, monoester with propane 1,2 - diol<br>Rapidly degradable<br>Vinyl toluene<br>NOT rapidly degradable<br><b>12.3. Bioaccumulative potential</b><br>2-Hydroxyethyl methacrylate<br>Partition coefficient: n-octanol/water<br>Ethylene dimethacrylate<br>Partition coefficient: n-octanol/water<br>Vinyl toluene | 0,42 Log Kow<br>2,4 Log Kow   |



EN

# SECTION 12. Ecological information .../>>

# 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 greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

Non-hardened material (such as expired or damaged products and/or rejects): e.g. 08 04 09\* Glue and sealing materials waste containing organic solvents or other dangerous substances

Hardened material, e.g.: 08 04 10 Glue and sealing materials waste or other dangerous substances, other than classified under 08 04 09.

Contaminated packaging Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product. 15 01 10\* Packaging containing residues of or contaminated by dangerous substances

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

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC:

None



EN

### SECTION 15. Regulatory information .../>>

| SECTION 13. Regulatory information and co   |  |
|---|--|
| Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  |  |
| Product<br>Point 3  |  |
| <u>Substances in Candidate List (Art. 59 REACH)</u><br>On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%. |  |
| Substances subject to authorisation (Annex XIV REACH)<br>None   |  |
| Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:<br>None   |  |
| Substances subject to the Rotterdam Convention:<br>None   |  |
| Substances subject to the Stockholm Convention:<br>None   |  |
|   |  |

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

# **SECTION 16. Other information**

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

| Flam. Liq. 3<br>Acute Tox. 4<br>Asp. Tox. 1<br>Eye Irrit. 2<br>Skin Irrit. 2<br>STOT SE 3<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 2<br>Aquatic Chronic 3<br>H226<br>H332 | Flammable liquid, category 3<br>Acute toxicity, category 4<br>Aspiration hazard, category 1<br>Eye irritation, category 2<br>Skin irritation, category 2<br>Specific target organ toxicity - single exposure, category 3<br>Skin sensitization, category 1<br>Hazardous to the aquatic environment, acute toxicity, category 1<br>Hazardous to the aquatic environment, chronic toxicity, category 2<br>Hazardous to the aquatic environment, chronic toxicity, category 3<br>Flammable liquid and vapour.<br>Harmful if inhaled. |
|--|---|
| H304<br>H319   | May be fatal if swallowed and enters airways.   |
| H315   | Causes serious eye irritation.<br>Causes skin irritation.   |
| H335   | May cause respiratory irritation.   |
| H317   | May cause an allergic skin reaction.  |
| H400   | Very toxic to aquatic life.   |
| H411   | Toxic to aquatic life with long lasting effects.  |
| H412   | Harmful to aquatic life with long lasting effects.  |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



EN

#### SECTION 16. Other information .../>>

- 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 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
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X 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
- ECHA 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.

Changes to previous review: The following sections were modified: 03.





VR-EA COMP B

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: Product name Chemical name and synonym HH0106000050 FFX VR-EA COMP B Mastic based peroxide

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

Intended use

Bi-component injection system for chemical anchor on construction materials.

1.3. Details of the supplier of the safety data sheet

Name Full address District and Country FFX Folkestone Fixings Dyna House, Lympne Ind. Est, Lympne Kent, CT21 4LR Tel. +44 1303 847 787

e-mail address

technical@ffx.co.uk

#### 1.4. Emergency telephone number

For urgent inquiries refer to

Tel. +44 1303 847 787 (Monday-Friday 08h30-17h00)

# **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 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of these sheets.

| Hazard classification and indication: |      |                                      |
|---------------------------------------|------|--------------------------------------|
| Eye irritation, category 2            | H319 | Causes serious eye irritation.       |
| Skin sensitization, category 1        | H317 | May cause an allergic skin reaction. |

#### 2.2. Label elements

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

Hazard pictograms:



| Signal words:                             | Warning   |
|---|---|
| Hazard statements:<br>H319<br>H317        | Causes serious eye irritation.<br>May cause an allergic skin reaction.                                  |
| Precautionary statements:<br>P101<br>P102 | If medical advice is needed, have product container or label at hand.<br>Keep out of reach of children. |

@ EPY 9.8.3 - SDS 1004.11



EN

#### **SECTION 2. Hazards identification** 1>> P280 Wear protective gloves / eye protection / face protection. P302+P352 IF ON SKIN: wash with plenty of water / ... P333+P313 If skin irritation or rash occurs: Get medical advice / attention. Dispose of contents/container in accordance with national regulations. P501 Contains: Dibenzoyl peroxide 2.3. Other hazards On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%. **SECTION 3. Composition/information on ingredients** 3.2. Mixtures Contains Identification x = Conc. %Classification 1272/2008 (CLP) Dibenzoyl peroxide Org. Perox B H241, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, 94-36-0 CAS $11 \le x \le 17$ Aquatic Chronic 1 H410 M=10 202-327-6 FC INDEX 617-008-00-0 Reg. no. 01-2119511472-50 The full wording of hazard (H) phrases is given in section 16 of the sheet.

Quartz (SiO2) - CAS 14808-60-7 - C%: >=50 - <80:

The quartz contained in the product is classified as non-hazardous. Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

# **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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash

contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

#### 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 The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.





# SECTION 5. Firefighting measures .../>>

#### 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.

#### 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 13.

#### 6.4. Reference to other sections

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

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a well ventilated place, storage range temperature between 5°C and 30°C. Keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, naked flames and sparks and other sources of ignition. Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity.

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

Information not available

# SECTION 8. Exposure controls/personal protection

ACGIH 2018

#### 8.1. Control parameters

Regulatory References:

TLV-ACGIH



EN

# SECTION 8. Exposure controls/personal protection ..../>>

| HUN 8. Exposi  | ire control  | is/person    | al protectio | on 122  |              |                  |          |         |          |
|--|--------------|--------------|--------------|---------|--------------|------------------|----------|---------|----------|
|  |              |              |              | Dibenz  | oyl peroxide |                  |          |         |          |
| hreshold Limit Va  | lue          |              |              |         |              |                  |          |         |          |
| Туре   | Country      | TWA/8h       |              | STEL/15 | ōmin         |                  |          |         |          |
|  |              | mg/m3        | ppm          | mg/m3   | ppm          |                  |          |         |          |
| TLV-ACGIH  |              | 5            |              |         |              |                  |          |         |          |
| Normal value in f  | resh water   |              |              |         |              |                  | 0,00002  | mg/l    |          |
| Normal value in marine water                               |              |              |              |         |              | 0,000002         | mg/l     |         |          |
|  |              |              |              |         |              | mg/kg/d          |          |         |          |
|  |              |              |              |         |              | mg/kg/d          |          |         |          |
| Normal value for water, intermittent release 0,000602 mg/l |              |              |              |         |              |                  | mg/l     |         |          |
| Normal value of STP microorganisms 0,35 mg/l               |              |              |              |         |              | mg/l             |          |         |          |
| Normal value for the terrestrial compartment               |              |              |              |         |              |                  | 0,0025   | mg/kg/d |          |
| ealth - Derived no   | -effect leve | I - DNEL / I | OMEL         |         |              |                  |          |         |          |
|  | Effec        | ts on consu  | mers         |         |              | Effects on worke | ers      |         |          |
| Route of exposur   | e Acute      | e Acu        | ite          | Chronic | Chronic      | Acute Local      | Acute    | Chronic | Chronic  |
|  | local        | sys          | temic        | local   | systemic     |                  | systemic | local   | systemic |
| Oral   |              |              |              |         | 2            |                  |          |         |          |
|  |              |              |              |         | mg/kg bw/d   |                  |          |         |          |
| Inhalation   |              |              |              |         |              |                  |          |         | 39       |
|  |              |              |              |         |              |                  |          |         | mg/m3    |
| Skin   |              |              |              |         |              |                  |          |         | 13,3     |
|  |              |              |              |         |              |                  |          |         | mg/kg    |
|  |              |              |              |         |              |                  |          |         | bw/d     |

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.

Quartz (SiO2):

The quartz contained in the product is classified as non-hazardous. Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

#### 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.

Provide an emergency shower with face and eye wash station.

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 II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

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 B 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

| Appearance                             | paste            |
|--|------------------|
| Colour                                 | black            |
| Odour                                  | characteristic   |
| Odour threshold                        | Not available    |
| рН                                     | Not available    |
| Melting point / freezing point         | Not available    |
| Initial boiling point                  | Not available    |
| Boiling range                          | Not available    |
| Flash point                            | Not available    |
| Evaporation Rate                       | Not available    |
| Flammability of solids and gases       | Not available    |
| Lower inflammability limit             | Not available    |
| Upper inflammability limit             | Not available    |
| Lower explosive limit                  | Not available    |
| Upper explosive limit                  | Not available    |
| Vapour pressure                        | Not available    |
| Vapour density                         | Not available    |
| Relative density                       | 1,50 - 1,70 kg/l |
| Solubility                             | Not available    |
| Partition coefficient: n-octanol/water | Not available    |
| Auto-ignition temperature              | Not available    |
| Decomposition temperature              | Not available    |
| Viscosity                              | Not available    |
| Explosive properties                   | Not available    |
| Oxidising properties                   | Not available    |

### 9.2. Other information

Ossigeno attivo (%)

# < 1

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

Information not available

#### 10.2. Chemical stability

The product is stable if stored in original containers at temperatures lower than the self accelerated decomposition temperature (SADT).

To avoid the exposure on the sunlight.

#### 10.3. Possibility of hazardous reactions

Information not available

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition. Avoid transferring into containers that may have been contaminated with other substances. Avoid storing close to inflammable or combustible products.

#### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the formation of explosive peroxides or other potentially hazardous substances.



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# **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

> Dibenzoyl peroxide LD50 (Oral) LC50 (Inhalation)

> 2000 mg/kg RAT > 24,3 mg/l/4h RAT

Not classified (no significant component) Not classified (no significant component)

Not classified (no significant component)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin\_

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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# **SECTION 12. Ecological information**

#### 12.1. Toxicity

Dibenzoyl peroxide LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants EC10 for Crustacea Chronic NOEC for Fish Chronic NOEC for Algae / Aquatic Plants

> 0,0711 mg/l/72h (OECD TG 201)
 > 0,001 mg/l/28d (OECD TG 211)
 > 0,0316 mg/l 96 h

> 0,0602 mg/l/96h (OECD TG 203)> 0,11 mg/l/48h (OECD TG 202)

> 0,02 mg/l 72 h

mixture/product

LC50 - Fish> 100 mg / I / 96h fish (OECD TG 203) EC50 - Crustaceans> 100 mg / I / 48h daphnia magna (OECD TG 202) EC50 - Algae / Aquatic Plants> 100 mg / I / 72h algae - Pseudokirchneriella subcapitata (OECD TG 201 Acute and Chronic) NOEC Chronic Fish> 100 mg / I / 28 d fish, Juvenile Growth Test (OECD TG 215).

#### 12.2. Persistence and degradability

| Dibenzoyl peroxide               |                                   |
|----------------------------------|-----------------------------------|
| Rapidly degradable               | 71% in water 28 d (OECD TG 301 D) |
| 12.3. Bioaccumulative potential  |                                   |
| 12.0. Breaddanraiante percintian |                                   |

| Dibenzoyl peroxide                     |                           |
|--|---------------------------|
| Partition coefficient: n-octanol/water | 3,2 Log Kow (OECD TG 117) |

#### 12.4. Mobility in soil

Dibenzoyl peroxide Partition coefficient: soil/water 3,8 (OECD TG 121)

#### 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 greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

Non-hardened material (such as expired or damaged products and/or rejects): e.g. 08 04 09\* Glue and sealing materials waste containing organic solvents or other dangerous substances

Hardened material, e.g.: 08 04 10 Glue and sealing materials waste or other dangerous substances, other than classified under 08 04 09.

Contaminated packaging Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product. 15 01 10\* Packaging containing residues of or contaminated by dangerous substances

#### 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. CONTAMINATED PACKAGING

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





# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 3

None

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

<u>Subst</u> None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.



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# **SECTION 16. Other information**

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

| Org. Perox B      | Organic peroxide, category B                                       |
|-------------------|--|
| Eye Irrit. 2      | Eye irritation, category 2   |
| Skin Sens. 1      | Skin sensitization, category 1                                     |
| Aquatic Acute 1   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| H241              | Heating may cause a fire or explosion.                             |
| H319              | Causes serious eye irritation.                                     |
| H317              | May cause an allergic skin reaction.                               |
| H400              | Very toxic to aquatic life.  |
| H410              | Very toxic to aquatic life with long lasting effects.              |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 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
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X 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





#### SECTION 16. Other information ..../>>

- IFA GESTIS website- ECHA 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.

Changes to previous review: The following sections were modified: 05.