

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

## FIX-GRAF STONE



Version 1 Date of compilation: 5/07/2010

Version 6 (replaces version 5)

Revision date: 15/03/2023

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: FIX-GRAF STONE  
Product Code: 03

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

Decapante para eliminar graffitis y restos de epoxi

#### Uses advised against:

Uses other than those recommended.

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

Company: **FIXCER PRODUCTS, S.A.U.**  
Address: CTRA. SANT CUGAT KM. 3  
City: CERDANYOLA DEL VALLÈS  
Province: BARCELONA  
Telephone: 93 586 20 03  
Fax: 93 586 10 91  
E-mail: fixcer@fixcer.com  
Web: www.fixcer.com

**1.4 Emergency telephone number:** Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses) Teléfono: +34 91 5620420. (Available 24 hours)  
Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses) Teléfono: +34 91 5620420.  
Información en español (24h/365 días). Únicamente con la finalidad de proporcionar respuesta sanitaria en caso de urgencia.

### SECTION 2: HAZARDS IDENTIFICATION.

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

In accordance with Regulation (EC) No 1272/2008:

Acute Tox. 4 : Harmful if swallowed.  
Aquatic Chronic 3 : Harmful to aquatic life with long lasting effects.  
Eye Irrit. 2 : Causes serious eye irritation.  
Skin Irrit. 2 : Causes skin irritation.

#### 2.2 Label elements.

##### **Labelling in accordance with Regulation (EC) No 1272/2008:**

Pictograms:



Signal Word:

**Warning**

Hazard statements:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

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|      |                                                                                                  |
|------|--------------------------------------------------------------------------------------------------|
| P262 | Do not get in eyes, on skin, or on clothing.                                                     |
| P270 | Do not eat, drink or smoke when using this product.                                              |
| P273 | Avoid release to the environment.                                                                |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... |

### 2.3 Other hazards.

The mixture does not contain substances classified as PBT.

The mixture does not contain substances classified as vPvB.

The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers                                                                                               | Name                                                | Concentrate | (*)Classification - Regulation (EC) No 1272/2008                                                           |                                                                           |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                                                                                           |                                                     |             | Classification                                                                                             | Specifics concentration limits and Acute toxicity estimate                |
| Index No: 603-057-00-5<br>CAS No: 100-51-6<br>EC No: 202-859-9<br>Registration No: 01-2119492630-38-XXXX  | benzyl alcohol                                      | 10 - 25 %   | Acute Tox. 4, H302+H332                                                                                    | -                                                                         |
| CAS No: 27136-73-8<br>EC No: 248-248-0                                                                    | 2-(heptadecenyl)-4,5-dihydro-1H-imidazole-1-ethanol | 10 - 25 %   | Acute Tox. 4, H302 - Aquatic Chronic 2, H411 - Eye Dam. 1, H318 - Skin Corr. 1C, H314 - Skin Sens. 1, H317 | -                                                                         |
| Index No: 607-001-00-0<br>CAS No: 64-18-6<br>EC No: 200-579-1<br>Registration No: 01-2119491174-37-XXXX   | [1] [2] formic acid                                 | 2.5 - 10 %  | Eye Irrit. 2, H319 - Skin Irrit. 2, H315                                                                   | Skin Irrit. 2, H315: 2 % ≤ C < 10 %<br>Eye Irrit. 2, H319: 2 % ≤ C < 10 % |
| CAS No: 104-57-4<br>EC No: 203-214-4                                                                      | Benzyl formate                                      | 2.5 - 10 %  | Acute Tox. 4, H302                                                                                         | -                                                                         |
| Index No: 613-108-00-3<br>CAS No: 149-30-4<br>EC No: 205-736-8<br>Registration No: 01-2119485805-26-XXXX  | benzothiazole-2-thiol                               | 0 - 2.5 %   | -                                                                                                          | -                                                                         |
| Index No: 011-002-00-6<br>CAS No: 1310-73-2<br>EC No: 215-185-5<br>Registration No: 01-2119457892-27-XXXX | [2] sodium hydroxide, caustic soda                  | 0 - 2.5 %   | -                                                                                                          | -                                                                         |

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(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a European Union exposure limit in the workplace (see section 8.1).

[2] Substance with a national workplace exposure limit (see section 8.1).

### SECTION 4: FIRST AID MEASURES.

**IRRITANT MIXTURE.** Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

### SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

#### 5.1 Extinguishing media.

##### Suitable extinguishing media:

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

##### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

##### Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

##### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES.

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

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

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

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

### SECTION 7: HANDLING AND STORAGE.

#### 7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

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

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

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

-

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1 Control parameters.

Work exposure limit for:

| Name        | CAS No. | Country                      | Limit value        | ppm | mg/m <sup>3</sup> |
|-------------|---------|------------------------------|--------------------|-----|-------------------|
| formic acid | 64-18-6 | España [1]                   | <b>Eight hours</b> | 5   | 9                 |
|             |         |                              | <b>Short term</b>  |     |                   |
|             |         | European Union [2]           | <b>Eight hours</b> | 5   | 9                 |
|             |         |                              | <b>Short term</b>  |     |                   |
|             |         | United Kingdom [3]           | <b>Eight hours</b> | 5   | 9,6               |
|             |         |                              | <b>Short term</b>  |     |                   |
|             |         | Éire [4]                     | <b>Eight hours</b> | 5   | 9                 |
|             |         |                              | <b>Short term</b>  |     |                   |
|             |         | United States [5] (Cal/OSHA) | <b>Eight hours</b> | 5   |                   |
|             |         |                              | <b>Short term</b>  | 10  |                   |

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|                                |           |                              |                    |             |             |
|--------------------------------|-----------|------------------------------|--------------------|-------------|-------------|
| sodium hydroxide, caustic soda | 1310-73-2 | United States [6] (NIOSH)    | <b>Eight hours</b> | 5           |             |
|                                |           |                              | <b>Short term</b>  |             |             |
|                                |           | United States [7] (OSHA)     | <b>Eight hours</b> | 5           | 9           |
|                                |           |                              | <b>Short term</b>  |             |             |
|                                |           | España [1]                   | <b>Eight hours</b> |             |             |
|                                |           |                              | <b>Short term</b>  |             | 2           |
|                                |           | United Kingdom [3]           | <b>Eight hours</b> |             |             |
|                                |           |                              | <b>Short term</b>  |             | 2           |
|                                |           | Éire [4]                     | <b>Eight hours</b> |             |             |
|                                |           |                              | <b>Short term</b>  |             | 2           |
|                                |           | United States [5] (Cal/OSHA) | <b>Eight hours</b> | (Ceiling) 2 |             |
|                                |           |                              | <b>Short term</b>  |             |             |
|                                |           | United States [6] (NIOSH)    | <b>Eight hours</b> |             | (Ceiling) 2 |
|                                |           |                              | <b>Short term</b>  |             |             |
|                                |           | United States [7] (OSHA)     | <b>Eight hours</b> |             | 2           |
|                                |           |                              | <b>Short term</b>  |             |             |

[1] Según la lista de Valores Límite Ambientales de Exposición Profesional adoptados por el Instituto Nacional de Seguridad y Salud en el Trabajo (INSST) para el año 2022.

[2] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[3] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[4] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[5] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[6] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[7] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

| Name                                                                    | DNEL/DMEL           | Type                                  | Value                       |
|-------------------------------------------------------------------------|---------------------|---------------------------------------|-----------------------------|
| benzyl alcohol<br>CAS No: 100-51-6<br>EC No: 202-859-9                  | DNEL<br>(Workers)   | Inhalation, Chronic, Systemic effects | 90<br>(mg/m <sup>3</sup> )  |
| formic acid<br>CAS No: 64-18-6<br>EC No: 200-579-1                      | DNEL<br>(Workers)   | Inhalation, Chronic, Local effects    | 9,5<br>(mg/m <sup>3</sup> ) |
| benzothiazole-2-thiol<br>CAS No: 149-30-4<br>EC No: 205-736-8           | DNEL<br>(Workers)   | Inhalation, Chronic, Systemic effects | 8,8<br>(mg/m <sup>3</sup> ) |
| sodium hydroxide, caustic soda<br>CAS No: 1310-73-2<br>EC No: 215-185-5 | DNEL<br>(Workers)   | Inhalation, Chronic, Local effects    | 1 (mg/m <sup>3</sup> )      |
|                                                                         | DNEL<br>(Consumers) | Inhalation, Chronic, Local effects    | 1 (mg/m <sup>3</sup> )      |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

| Name                                               | Details                | Value                    |
|----------------------------------------------------|------------------------|--------------------------|
| formic acid<br>CAS No: 64-18-6<br>EC No: 200-579-1 | Fresh water            | 2 (mg/l)                 |
|                                                    | Marine water           | 0,2 (mg/l)               |
|                                                    | Aqua                   | 1 (mg/l)                 |
|                                                    | Fresh water sediments  | 13,4 (mg/kg sediment dw) |
|                                                    | Marine water sediments | 1,34 (mg/kg sediment dw) |
|                                                    | Soil                   | 1,5 (mg/kg soil dw)      |

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PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

|                              |                                                                                                                                                                                                                                                                                                           |                                                            |       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------|
| <b>Concentration:</b>        |                                                                                                                                                                                                                                                                                                           | <b>100 %</b>                                               |       |
| <b>Uses:</b>                 |                                                                                                                                                                                                                                                                                                           | <b>Decapante para eliminar graffitis y restos de epoxi</b> |       |
| <b>Breathing protection:</b> |                                                                                                                                                                                                                                                                                                           |                                                            |       |
| PPE:                         | Filter mask for protection against gases and particles.                                                                                                                                                                                                                                                   |                                                            |       |
| Characteristics:             | «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.                                                                                                                                                             |                                                            |       |
| CEN standards:               | EN 136, EN 140, EN 405                                                                                                                                                                                                                                                                                    |                                                            |       |
| Maintenance:                 | Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.                                                                                                  |                                                            |       |
| Observations:                | Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer. |                                                            |       |
| Filter Type needed:          | A2                                                                                                                                                                                                                                                                                                        |                                                            |       |
| <b>Hand protection:</b>      |                                                                                                                                                                                                                                                                                                           |                                                            |       |
| PPE:                         | Non-disposable protective gloves against chemicals.                                                                                                                                                                                                                                                       |                                                            |       |
| Characteristics:             | «CE» marking, category III. Check the list of chemicals for which the glove has been tested.                                                                                                                                                                                                              |                                                            |       |
| CEN standards:               | EN 374-1, En 374-2, EN 374-3, EN 420                                                                                                                                                                                                                                                                      |                                                            |       |
| Maintenance:                 | A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.    |                                                            |       |
| Observations:                | They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.                                                                                                                                                                            |                                                            |       |
| Material:                    | PVC (polyvinyl chloride)                                                                                                                                                                                                                                                                                  | Breakthrough time (min.):                                  | > 480 |
|                              |                                                                                                                                                                                                                                                                                                           | Material thickness (mm):                                   | 0,35  |
| <b>Eye protection:</b>       |                                                                                                                                                                                                                                                                                                           |                                                            |       |
| PPE:                         | Protective goggles with built-in frame.                                                                                                                                                                                                                                                                   |                                                            |       |
| Characteristics:             | «CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.                                                                                                                                                                                          |                                                            |       |
| CEN standards:               | EN 165, EN 166, EN 167, EN 168                                                                                                                                                                                                                                                                            |                                                            |       |
| Maintenance:                 | Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.                                                                                                                       |                                                            |       |
| Observations:                | Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.                                                                                                                                                                                  |                                                            |       |
| <b>Skin protection:</b>      |                                                                                                                                                                                                                                                                                                           |                                                            |       |
| PPE:                         | Chemical protective clothing                                                                                                                                                                                                                                                                              |                                                            |       |
| Characteristics:             | «CE» marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.                                                               |                                                            |       |
| CEN standards:               | EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034                                                                                                                                                                                                                                     |                                                            |       |
| Maintenance:                 | In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.                                                                                                                                                                                   |                                                            |       |
| Observations:                | The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.                                   |                                                            |       |
| PPE:                         | Anti-static safety footwear against chemicals.                                                                                                                                                                                                                                                            |                                                            |       |
| Characteristics:             | «CE» marking, category III. Check the list of chemicals against which the footwear is resistant.                                                                                                                                                                                                          |                                                            |       |
| CEN standards:               | EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345                                                                                                                                                                                                                              |                                                            |       |
| Maintenance:                 | For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed.                                                                                            |                                                            |       |
| Observations:                | The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.                                                                                                                          |                                                            |       |

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

Physical state: Liquid

Colour: Not applicable/Not available due to the nature/properties of the product

Odour: Not applicable/Not available due to the nature/properties of the product

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: Not applicable/Not available due to the nature/properties of the product

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: 100-110 °C

Flammability: Not applicable/Not available due to the nature/properties of the product

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product

Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: >60 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product

Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: 2,5

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Soluble

Hydrosolubility: Not applicable/Not available due to the nature/properties of the product

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product

Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 1-1.15

Relative vapour density: Not applicable/Not available due to the nature/properties of the product

Particle characteristics: Not applicable/Not available due to the nature/properties of the product

#### 9.2 Other information

##### Other safety characteristics

Viscosity: > 60 mPa

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

#### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

#### 10.4 Conditions to avoid.

- Avoid contact with bases.

#### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

#### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

### SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Splashes in the eyes can cause irritation.

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IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

### 11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

### Toxicological information about the substances present in the composition.

| Name                               | Acute toxicity |                                                                                                                           |        |                  |
|------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|--------|------------------|
|                                    | Type           | Test                                                                                                                      | Kind   | Value            |
| sodium hydroxide, caustic soda     | Oral           | LD50                                                                                                                      | Rabbit | 325 mg/kg bw [1] |
|                                    |                | [1] Naunyn-Schmiedeberg's (1937), Archiv für experimentielle Pathologie und Pharmakologie (Berlin, Germany), 184, 587-604 |        |                  |
|                                    | Dermal         |                                                                                                                           |        |                  |
| CAS No: 1310-73-2 EC No: 215-185-5 | Inhalation     |                                                                                                                           |        |                  |

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 2.222 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

### 11.2 Information on other hazards.

#### Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

#### Other information

There is no information available on other adverse health effects.

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### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

| Name                                                                        | Ecotoxicity           |                                                                                      |                      |                      |
|-----------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------|----------------------|----------------------|
|                                                                             | Type                  | Test                                                                                 | Kind                 | Value                |
| sodium hydroxide, caustic soda<br><br>CAS No: 1310-73-2    EC No: 215-185-5 | Fish                  | Minimal Lethal Concentration                                                         | Notropis sp.         | 100 mg/L (120 h) [1] |
|                                                                             |                       | [1] Van Horn et al. (1949), Effects of Kraft Mill Wastes, American Fisheries Society |                      |                      |
|                                                                             | Aquatic invertebrates | LC50                                                                                 | Ophryotrocha diadema | 33 mg/L (48 h) [1]   |
|                                                                             |                       | [1] Parker JG (1984), Wat Res, 18, 865-868                                           |                      |                      |
|                                                                             | Aquatic plants        |                                                                                      |                      |                      |

#### 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

#### 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

| Name                                                          | Bioaccumulation |     |       |          |
|---------------------------------------------------------------|-----------------|-----|-------|----------|
|                                                               | Log Pow         | BCF | NOECs | Level    |
| benzyl alcohol<br>CAS No: 100-51-6    EC No: 202-859-9        | 1,05            | -   | -     | Very low |
| benzothiazole-2-thiol<br>CAS No: 149-30-4    EC No: 205-736-8 | 2,41            | -   | -     | Low      |

#### 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

#### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

#### 12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS.

#### 13.1 Waste treatment methods.

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Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

### SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

**Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

#### 14.1 UN number or ID number.

UN No: UN3412

#### 14.2 UN proper shipping name.

Description:

ADR/RID: UN 3412, FORMIC ACID, 8, PG III, (E)

IMDG: UN 3412, FORMIC ACID, 8, PG III (60°C)

ICAO/IATA: UN 3412, FORMIC ACID, 8, PG III

#### 14.3 Transport hazard class(es).

Class(es): 8

#### 14.4 Packing group.

Packing group: III

#### 14.5 Environmental hazards.

Marine pollutant: No

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B

#### 14.6 Special precautions for user.

Labels: 8



Hazard number: 80

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 1 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Proceed in accordance with point 6.

IMDG Code segregation group: 1 Acids

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

The product is not transported in bulk.

### SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

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## Volatile organic compound (VOC)

VOC content (p/p): 12,5 %

VOC content: 125 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

## **15.2 Chemical safety assessment.**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **SECTION 16: OTHER INFORMATION.**

Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4  
Acute Tox. 4 : Acute toxicity (Oral), Category 4  
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1  
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1  
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3  
Eye Dam. 1 : Serious eye damage, Category 1  
Eye Irrit. 2 : Eye irritation, Category 2  
Skin Corr. 1A : Skin Corrosive, Category 1A  
Skin Corr. 1C : Skin Corrosive, Category 1C  
Skin Irrit. 2 : Skin irritant, Category 2  
Skin Sens. 1 : Skin sensitizer, Category 1

Changes regarding to the previous version:

- Change in the emergency number (SECTION 1.4).
- Modification of specific hazards (SECTION 2.3).
- Changes in the composition of the product (SECTION 3.2).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modifications in the accidental release measures (SECTION 6.2).
- Modification of exposure data (SECTION 8.1).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Change in the hazard classification (SECTION 11.1).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- Elimination of abbreviations and acronyms (SECTION 16).
- Addition of abbreviations and acronyms (SECTION 16).

## **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

|                       |                       |
|-----------------------|-----------------------|
| Physical hazards      | On basis of test data |
| Health hazards        | Calculation method    |
| Environmental hazards | Calculation method    |

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

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considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.