



## Safety Data Sheet

prepared to UN GHS Revision 3

### 1. Identification of the Substance/Mixture and the Company/Undertaking

|     |   |   |                  |            |
|-----|---|---|------------------|------------|
| 1.1 | Product Identifier  | IIN-EPWAF-AC  | Revision Date:   | 04/06/2024 |
|     | Product Name:   | FLOWSEAL EPW AF - ACT   | Supersedes Date: | New SDS    |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | Hardener for 2 components coatings - Industrial use. Advised against: others than recommended   |                  |            |
| 1.3 | Details of the supplier of the safety data sheet                              |   |                  |            |
|     | Importer:   | Importer  |                  |            |
|     | Manufacturer:   | StonCor Africa (Pty.) Ltd.<br>8 Cresset Road<br>Midrand Industrial Park, Chloorkop<br>P.O. Box 2205<br>2001, Johannesburg<br>South Africa |                  |            |
|     |   | Regulatory / Technical Information:<br>+27 11 254 5500  |                  |            |
|     | Datasheet Produced by:  | Muller, Riaan - ehs@stoncor.com   |                  |            |
| 1.4 | Emergency telephone number:   | CHEMTREC 1-800-424-9300 (Inside US)<br>CHEMTREC +1 703 5273887 (Outside US)<br><br>Giftinformasjonen: +47 22 59 13 00                     |                  |            |

### 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Carcinogenicity, category 2  
STOT, repeated exposure, category 2

## 2.2 Label elements

### Symbol(s) of Product



### Signal Word

Warning

### Named Chemicals on Label

silicon dioxide (amorphous), titanium dioxide

### HAZARD STATEMENTS

|                                     |      |  |
|-------------------------------------|------|--|
| Carcinogenicity, category 2         | H351 | Suspected of causing cancer.                                       |
| STOT, repeated exposure, category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |

### PRECAUTION PHRASES

|          |  |
|----------|--|
| P260     | Do not breathe dust/fume/gas/mist/vapours/spray.       |
| P284     | Wear respiratory protection.                           |
| P308+313 | IF exposed or concerned: Get medical advice/attention. |
| P314     | Get medical advice/attention if you feel unwell.       |

## 2.3 Other hazards

No Information

### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## 3. Composition/Information On Ingredients

### 3.2 Mixtures

#### Hazardous ingredients

| <u>Name According to EEC</u> | <u>EINEC No.</u> | <u>CAS-No.</u> | <u>%</u>   | <u>Classifications</u> |           |
|------------------------------|------------------|----------------|------------|------------------------|-----------|
| titanium dioxide             | 236-675-5        | 13463-67-7     | 25 - <50   | H351                   | Carc. 2   |
| kaolin                       | 310-194-1        | 1332-58-7      | 2.5 - <10  |                        |           |
| silicon dioxide (amorphous)  | 231-545-4        | 7631-86-9      | 1.0 - <2.5 | H372                   | STOT RE 1 |
| alumina trihydrate           |                  | 21645-51-2     | 1.0 - <2.5 |                        |           |

#### CAS-No.

13463-67-7  
1332-58-7  
7631-86-9  
21645-51-2

#### M-Factors

**Additional Information:** The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

GENERAL NOTES: No Information

AFTER INHALATION: Move to fresh air.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything

by mouth to an unconscious person.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Do not ingest. May be harmful by inhalation, in contact with skin and if swallowed.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## 5. Fire-fighting Measures

**5.1 Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above.

**5.2 Special hazards arising from the substance or mixture**

No Information

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. None.

## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

**6.2 Environmental precautions**

Do not allow material to contaminate ground water system. Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.

**PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

**CONDITIONS TO AVOID:** No Information

**STORAGE CONDITIONS:** Do not freeze. Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3 Specific end use(s)**

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits (EU)

| <u>Name</u>                 | <u>CAS-No.</u> | <u>LTEL ppm</u> | <u>STEL ppm</u> | <u>STEL mg/m3</u> | <u>LTEL mg/m3</u> |
|-----------------------------|----------------|-----------------|-----------------|-------------------|-------------------|
| titanium dioxide            | 13463-67-7     |                 |                 |                   |                   |
| kaolin                      | 1332-58-7      |                 |                 |                   |                   |
| silicon dioxide (amorphous) | 7631-86-9      |                 |                 |                   |                   |
| alumina trihydrate          | 21645-51-2     |                 |                 |                   |                   |

| <u>Name</u>                 | <u>CAS-No.</u> | <u>OEL Note</u> |
|-----------------------------|----------------|-----------------|
| titanium dioxide            | 13463-67-7     |                 |
| kaolin                      | 1332-58-7      |                 |
| silicon dioxide (amorphous) | 7631-86-9      |                 |
| alumina trihydrate          | 21645-51-2     |                 |

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

#### Personal Protection

**RESPIRATORY PROTECTION:** In case of insufficient ventilation wear suitable respiratory equipment. No personal respiratory protective equipment normally required.

**EYE PROTECTION:** Safety glasses.

**HAND PROTECTION:** Protective gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| <b>Appearance:</b>                                  | Viscous Liquid, Pigmented |
| <b>Physical State</b>                               | Liquid                    |
| <b>Odor</b>   | Distinct                  |
| <b>Odor threshold</b>                               | Not determined            |
| <b>pH</b>   | Not determined            |
| <b>Melting point / freezing point (°C)</b>          | Not determined            |
| <b>Boiling point/range (°C)</b>                     | 100 - 165                 |
| <b>Flash Point, (°C)</b>                            | N/A                       |
| <b>Evaporation rate</b>                             | Not determined            |
| <b>Flammability (solid, gas)</b>                    | Not determined            |
| <b>Upper/lower flammability or explosive limits</b> | Not determined            |
| <b>Vapour Pressure</b>                              | Not determined            |
| <b>Vapour density</b>                               | Heavier than air          |

|  |                |
|--|----------------|
| Relative density                       | 1.41-1.45      |
| Solubility in / Miscibility with water | Miscible       |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature (°C)         | Not determined |
| Decomposition temperature (°C)         | Not determined |
| Viscosity                              | Not determined |
| Explosive properties                   | Not determined |
| Oxidising properties                   | Not determined |

**9.2 Other information**

|  |                |
|--|----------------|
| VOC Content g/l:   | Not determined |
| Calculated grams of VOC per liter of coating product as applied. |                |
| Specific Gravity (g/cm3)   | 1.485          |

## 10. Stability and Reactivity

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

No Information

**10.5 Incompatible materials**

No Information

**10.6 Hazardous decomposition products**

No Information

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity:

Oral LD50: No information available.

Inhalation LC50: No information available.

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

**Carcinogenicity:** This product contains one or more carcinogenic substances. See hazard classification and precautionary statements in Section 2 for further information.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>        | <u>Oral LD50</u>           | <u>Dermal LD50</u> | <u>Vapor LC50</u> | <u>Gas LC50</u> | <u>Dust/Mist LC50</u> |
|----------------|-----------------------------|----------------------------|--------------------|-------------------|-----------------|-----------------------|
| 13463-67-7     | titanium dioxide            | 10000 mg/m3,<br>oral (rat) |                    |                   | 0.000           | 0.000                 |
| 7631-86-9      | silicon dioxide (amorphous) | 3,160 mg/kg, rat           |                    |                   | 0.000           | 0.000                 |

#### Additional Information:

This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

## 12. Ecological Information

### 12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

**12.5 Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**12.6 Other adverse effects:**

No information

| <u>CAS-No.</u> | <u>Chemical Name</u>        | <u>EC50 48hr</u>                                  | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|-----------------------------|---|------------------|------------------|
| 13463-67-7     | titanium dioxide            | >100 mg/l (EC50, 48h, Daphnia magna OECD202)ation | No information   | >1000 mg/l       |
| 1332-58-7      | kaolin                      | No information                                    | No information   |                  |
| 7631-86-9      | silicon dioxide (amorphous) | No information                                    | No information   |                  |
| 21645-51-2     | alumina trihydrate          | No information                                    | No information   |                  |

**13. Disposal Considerations**

**13.1 WASTE TREATMENT METHODS:** If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport Information**

|  |   |
|--|---|
| <b>14.1 UN number</b>  | UN3082  |
| <b>14.2 UN proper shipping name</b>  | Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations. |
| <b>Technical name</b>  | Not applicable  |
| <b>14.3 Transport hazard class(es)</b>   | Not applicable  |
| <b>Subsidiary shipping hazard</b>  | Not applicable  |
| <b>14.4 Packing group</b>  | Not applicable  |
| <b>14.5 Environmental hazards</b>  | Not applicable  |
| <b>14.6 Special precautions for user</b>   | Not applicable  |
| <b>EmS-No.:</b>  | Not applicable  |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b> | Not applicable  |

**15. Regulatory Information****15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National Regulations:**

|   |               |
|---|---------------|
| <b>Denmark Product Registration Number:</b> | Not available |
| <b>Danish MAL Code:</b>                     | Not available |
| <b>Danish MAL Code - Mixture:</b>           | Not available |
| <b>Sweden Product Registration Number:</b>  | Not available |
| <b>Norway Product Registration Number:</b>  | Not available |
| <b>WGK Class:</b>                           | Not available |

**15.2 Chemical Safety Assessment:**

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

**16. Other Information****Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

|      |   |
|------|---|
| H351 | Suspected of causing cancer.                                    |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

**Reasons for revision**

No Information

**List of References:**

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

**Acronym & Abbreviation Key:**

|        |  |
|--------|--|
| CLP    | Classification, Labeling & Packaging Regulation                        |
| EC     | European Commission  |
| EU     | European Union   |
| US     | United States  |
| CAS    | Chemical Abstract Service  |
| EINECS | European Inventory of Existing Chemical Substances                     |
| REACH  | Registration, Evaluation, Authorization of Chemicals Regulation        |
| GHS    | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL   | Long term exposure limit   |
| STEL   | Short term exposure limit  |
| OEL    | Occupational exposure limit  |
| ppm    | Parts per million  |
| mg/m3  | Milligrams per cubic meter   |
| TLV    | Threshold Limit Value  |
| ACGIH  | American Conference of Governmental Industrial Hygienists              |
| OSHA   | Occupational Safety & Health Administration                            |
| PEL    | Permissible Exposure Limits  |
| VOC    | Volatile organic compounds   |
| g/l    | Grams per liter  |
| mg/kg  | Milligrams per kilogram  |
| N/A    | Not applicable   |
| LD50   | Lethal dose at 50%   |
| LC50   | Lethal concentration at 50%  |
| EC50   | Half maximal effective concentration                                   |
| IC50   | Half maximal inhibitory concentration                                  |



|          |  |
|----------|--|
| PBT      | Persistent bioaccumulative toxic chemical  |
| vPvB     | Very persistent and very bioaccumulative   |
| EEC      | European Economic Community  |
| ADR      | International Transport of Dangerous Goods by Road   |
| RID      | International Transport of Dangerous Goods by Rail   |
| UN       | United Nations   |
| IMDG     | International Maritime Dangerous Goods Code  |
| IATA     | International Air Transport Association  |
| MARPOL   | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978  |
| IBC      | International Bulk Container   |
| RTI      | Respiratory Tract Irritation   |
| NE       | Narcotic Effects   |
| IMO      | International Maritime Organization  |
| Note P:  | The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene   |
| Note 10: | The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$ . |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.