

# SAFETY DATA SHEET

## A.W.F. GLAZECOAT U.V. ACTIVATOR

### 1. PRODUCT AND COMPANY IDENTIFICATION

|              |  |
|--------------|--|
| Product Name | A.W.F. Glazecoat U.V. Activator  |
| Supplier     | A.W.F. SMS Ltd   |
| Address      | Unit I D<br>Brymau 3 Estate<br>River Lane<br>Saltney<br>Chester, CH4 8RQ |
| Phone Number | 01244 - 677833   |
| Fax Number   | 01244 - 677844   |

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

ALIPHATIC POLYISOCYANATE

| CAS number  | % by weight | EC number | Classification |
|-------------|-------------|-----------|----------------|
| 028182-81-2 | 70 - 80%    |           | R43, R52/53    |

HEXAMETHYLENE-DI-ISOCYANATE

| CAS number  | % by weight | EC number | Classification                |
|-------------|-------------|-----------|-------------------------------|
| 000822-06-0 | <0.2%       | 212-485-8 | T; R23, Xi; R36/37/38, R42/43 |

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

### 3. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification R43, R52/53

Human health hazards May cause sensitisation by skin contact.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

### 4. FIRST AID MEASURES

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

**Skin contact** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation occurs.

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

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least 15 minutes. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>. Do not use water jet.

Special exposure hazards No specific hazard.

Hazardous thermal decomposition products In a fire, the following may be released: carbon oxides (CO, CO<sub>2</sub>) nitrogen oxides (NO, NO<sub>2</sub> etc.) Hydrogen cyanide (HCN).

Protection of fire-fighters. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Immediately contact emergency personnel. Use suitable protective equipment (section 8).

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers

Methods for cleaning up If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

## 7. HANDLING AND STORAGE

Handling Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Wash thoroughly after handling.

Storage Keep container tightly closed. Store in original sealed containers at temperatures between 5° and 30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

HEXAMETHYLENE-DI-ISOCYANATE

Occupational exposure limits

EH40-WEL (United Kingdom (UK), 2005). Inhalation sensitiser

TWA: 0.02 mg/m<sup>3</sup> 8 hours

Occupational exposure controls Spray - Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Respiratory protection A respirator is not needed under normal and intended conditions of product use. Spray – Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapour cartridge. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 4-8 hours (breakthrough time): butyl rubber, nitrile rubber, natural rubber (latex) or PVC gloves.

Eye protection Safety glasses. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                           |  |                                     |                |
|---------------------------|--|-------------------------------------|----------------|
| Appearance                | Liquid. (Clear.)   | Odour                               | Faint odour.   |
| pH                        | Not applicable.  | Boiling point                       | >200°C (392°F) |
| Flash point               | Closed cup: >80°C (176°F).                                 | Flammability                        | Non-flammable. |
| Explosion limits          | Not available.   | Oxidising properties                | Not available. |
| Vapour pressure           | The highest known value is 0.07 kPa (0.6 mm Hg) (at 20°C). |                                     |                |
| Relative density          | 1.1 g/cm <sup>3</sup>                                      |                                     |                |
| Solubility                | Insoluble in cold water.                                   | Vapour density                      | Not available. |
| Evaporation rate          | Not available.   | Octanol/water partition coefficient | Not available. |
| (butyl acetate = 1)       |  |                                     |                |
| Auto-ignition temperature | >400°C (752°F)   | Melting point                       | >-15°C (5°F)   |

## 10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid Water reactive.

Materials to avoid Strong oxidising materials strong acids alcohols Amines The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure build-up could result in distortion, expansion and, in extreme cases, bursting of the container.

Hazardous decomposition products In a fire, the following may be released: carbon oxides (CO, CO<sup>2</sup>) nitrogen oxides (NO, NO<sup>2</sup> etc.) Hydrogen cyanide (HCN).

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin contact May cause sensitisation by skin contact.

Eye contact No known significant effects or critical hazards.

### Acute toxicity

| Ingredient name          | Test | Result      | Route | Species |
|--------------------------|------|-------------|-------|---------|
| ALIPHATIC POLYISOCYANATE | LD50 | >2000 mg/kg | Oral  | Rat     |

### Potential chronic health effects

Carcinogenicity No carcinogenic effect.

Mutagenicity No mutagenic effect.

Reproductive toxicity No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin Repeated skin exposure can produce local skin destruction or dermatitis

Additional information No components of this material are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

## 12. ECOLOGICAL INFORMATION

### Persistence/degradability

|                              |                   |            |                  |
|------------------------------|-------------------|------------|------------------|
| Ingredient name              | Aquatic half-life | Photolysis | Biodegradability |
| AWF Glazecoat/U.V. Activator | -                 | -          | Not readily      |

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.

Mobility Do not allow to enter drains or watercourses.

Other adverse effects Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

## 14. TRANSPORT INFORMATION

International transport regulations

Additional information This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

## 15. REGULATORY INFORMATION

EU regulations

Hazard symbol/symbols Irritant

Risk phrases R43- May cause sensitisation by skin contact. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S29- Do not empty into drains. S36/37- Wear suitable protective clothing and gloves. S42- During spraying wear suitable respiratory equipment. Contains isocyanates. See information supplied by the manufacturer.

Contains ALIPHATIC POLYISOCYANATE

Product use Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Consumer applications

Other EU regulations

EU statistical classification 32089091  
(Tariff Code)

National regulations

United States

SARA 313 toxic chemical notification and release reporting

HEXAMETHYLENE-DI-ISOCYANATE

Germany Hazard class for water 1

## 16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe

R23- Toxic by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact. R43- May cause sensitisation by skin contact. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe

T - Toxic

Xi - Irritant

### Further information

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

Canada - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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