

SAFETY DATA SHEET

A.W.F. FLEXIBLE RUBBER 80 EG ACTIVATOR

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Flexible Rubber 80 EG Activator
Supplier	A.W.F. SMS Ltd
Address	Unit I D Brymau 3 Estate River Lane Saltney Chester, CH4 8RQ
Phone Number	01244 - 677833
Fax Number	01244 - 677844

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

Component

METHYLENEDIPHENYL DIISOCYANATE

CAS number	% by weight	EC number	Classification
026447-40-5	30 - 60%	247-714-0	Xn; R20, 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 substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification Xn; R20, Xi; R36/37/38, R42/43

Human health hazards Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

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

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

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.

continued on page 2

continued from page 1

Eye contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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 CO₂. 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, CO₂) nitrogen oxides (NO, NO₂ 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. 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

METHYLENEDIPHENYL DIISOCYANATE

Occupational exposure limits

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

TWA: 0.02 mg/m³ 8 hours.

Exposure controls

Respiratory protection

A respirator is not needed under normal and intended conditions of product use.

Wear appropriate respirator when ventilation is inadequate.

continued on page 3

continued from page 2

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 assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection

Protective clothing. Repeated or prolonged contact with irritants may cause dermatitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid. (Clear.)	Odour	Faint odour.
pH	Not applicable.	Boiling point	>200°C (392°F)
Flash point	Closed cup: >200°C (392°F).	Flammability	Non-flammable.
Explosion limits	Not available.	Oxidising properties	Not available
Vapour pressure	Not available.	Relative density	1.2 g/cm ³
Solubility	Insoluble in cold water.	Vapour density	Not available.
Evaporation rate	Not available.	Octanol/water	Not available.
(butyl acetate = 1)		partition coefficient	
Auto-ignition temperature	>560°C (1040°F)	Melting point	<10°C (50°F)

10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid Moisture-sensitive material.

Materials to avoid. 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, CO₂) nitrogen oxides (NO, NO₂ etc.) Hydrogen cyanide (HCN).

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion No known significant effects or critical hazards.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

Acute toxicity

Flexible Rubber 80EG Activator	Test	Result	Route	Species
	LD50	>5000 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.

continued on page 4

continued from page 3

Over-exposure signs/symptoms

Inhalation Can cause dizziness, light-headedness, headache, nausea and blurred vision.

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 Flexible Rubber 80EG 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 No known significant effects or critical hazards.

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 Harmful

Risk phrases R20- Harmful by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact.

Safety phrases S23- Do not breathe vapour/spray 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. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S63- In case of accident by inhalation: remove casualty to fresh air and keep at rest. Contains isocyanates. See information supplied by the manufacturer.

Contains METHYLENEDIPHENYL DIISOCYANATE 247-714-0

continued on page 5

continued from page 4

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 29291090

(Tariff Code)

National regulations

United States

SARA 313 toxic chemical notification and release reporting No products were found.

Germany Hazard class for water 1

16. OTHER INFORMATION

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

R20- Harmful by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin. R42/43- May cause sensitisation by inhalation and skin contact.

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

Xn - Harmful

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.

Date of issue 10/01/2007