SAFETY DATA SHEET

A.W.F. FLEXIBLE RUBBER 60 EG BASE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Flexible Rubber 60 eg Base
Supplier	A.W.F. SMS Ltd
Address	Unit l 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
ISOPHORONE DI-ISOCYANATE

CAS number	% by weight	EC number	Classification
004098-71-9	<2%	223-861-6	T; R23, Xi; R36/37/38, R42/43, N;R51/53

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 Xn; R20, R42/43
Human health hazards Harmful by inhalation. 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.
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.

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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 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 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 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
ISOPHORONE DI-ISOCYANATE
Occupational exposure limits
EH40-WEL (United Kingdom (UK), 2005). Inhalation sensitizer
TWA: 0.02 mg/m ^{3} 8 hours.
Exposure controls
Respiratory protection A respirator is not needed under normal and intended conditions of product use.
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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. (Opaque paste) Odour Faint odour.
pH Not applicable. Boiling point >150°C (302°F)
Flash point Closed cup: >100°C (212°F). Flammability Non-flammable.
Explosion limits. The greatest known range is Lower: 0.7% Upper: 4.(ISOPHORONE DI-ISOCYANATE) Oxidising properties Not available
Vapour pressure The highest known value is 0.005 kPa (0.04 mm Hg) (at 20°C) (ISOPHORONE DI-ISOCYANATE). Relative density 1.065 g/cm 3
Solubility Insoluble in cold water. Vapour density Not available
Evaporation rate Not available (butyl acetate = 1) Octanol/water partition coefficient Not available
Auto-ignition temperature >410°C (770°F)
Melting point May start to solidify at -60°C (-76°F) based on data for:ISOPHORONE DI-ISOCYANATE.

10. STABILITY AND REACTIVITY

Stability The product is stable.
Conditions to avoid Water reactive.
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. May cause sensitisation by inhalation.
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
AWF Flexible Rubber 60EG Base	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.
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.

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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 60EG Base	-	-	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. R42/43- May cause sensitisation by inhalation and skin contact.

Safety phrases

S23- Do not breathe vapour/sprayS24- 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

ISOPHORONE DI-ISOCYANATE 223-861-6

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.

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Other EU regulations
EU statistical classification 29291090
(Tariff Code)
National regulations
United States
SARA 313 toxic chemical notification and release reporting :- ISOPHORONE 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.R51/53- Toxic 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
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment.
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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