

SAFETY DATA SHEET

A.W.F. FOAM SEAL

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Foam Seal
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

Description: Urethane prepolymer with liquefied propellants, flammable and under pressure

Dangerous components:

Einecs	Cas No	Designation, danger sign, R-phrases	Contents
202-966-0	101-68-8	Diphenylmethane-4, 4'-disocyanate Xn, R20- 36/37/38 – 42/43	5,0 -10%
203-448-7	106-97-8	Butane Pure F+, R12	2,5 -10%
204-065-8	115-10-6	Dimethyl ether F+, R 12	2,5 -10%

3. HAZARDS IDENTIFICATION

Hazards Xn Harmful F+ Extremely flammable

Information pertaining to particular dangers for man and environment:

R 36/37/38 Irritating to eyes, respiratory system and skin

R 12 Extremely Flammable

R 42/43 May cause sensitization by inhalation and skin contact.

Classification System

The classification is in line with the current EC lists. It is expanded, however by,

Trade name: One Component Polyurethane Dispenser Foam B3 Quality according to Din 4102 information from technical literature and by information furnished by supplier companies.

4. FIRST AID MEASURES

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Skin contact: Instantly wash with water and soap and rinse thoroughly.

Eye contact: Rinse opened eye for several minutes under running water. Then

consult doctor. After swallowing: Do not induce vomiting: Instantly call for medical help.

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Information for doctor: The following symptoms may occur: Allergic reactions

Danger: Irritant effects by pasting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: CO₂, Extinguishing powder or water jet.

Fight larger fires with water jet or alcohol resistant foam.

For Safety reasons Unsuitable Extinguishing Agents: Water with a full water jet.

Special hazards Caused by the material, its products of combustion or flue gases:

Can be released in case of fire Hydrogen fluoride (HF) Hydrogen chloride (HC.1)

Protective equipment: Do not inhale explosion gases or combustion gases.

Additional information: Cool endangered containers with water spray jet.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective clothing. Ensure adequate ventilation

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting: Allow to solidify. Collect mechanically.

7. HANDLING AND STORAGE

Handling Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Keep away from heat and direct sunlight. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 500C. Do not open by force or throw into fire even after use.

Storage Requirements to be met by storerooms and containers: Observe official regulations on storing packaging with pressurized containers.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Best storage temperatures: 18 - 22 °C

Storage class: Class according to regulation on inflammable liquids: Void

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Components with critical values that require monitoring at the workplace

101-68-8 diphenylmethane-4,4'-disocyanate	5-10%
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TVL: 0,05 mg/m³, 0.005 ppm

115-10-6 dimethyl ether	2,5-10%
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TVL: 1910 mg/m³, 1000ml/m³

106-97-8 butane, pure	2,5-10%
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TVL: 2350 mg/m³, 1000 ml/m³

Additional information: The lists that were valid during the compilation were used as basis.

Personal protective equipment General protective and hygienic measures:

Avoid contact with the skin. The usual precautionary measures should be adhered to in handling the chemicals.

Breathing equipment: Not necessary if room is well ventilated.

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Protection of hands: Protective gloves.

Eye protection: Safety glasses

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid (liquefied) in pressurized container

Colour: Light yellow

Smell: Weak, characteristic

Value/Range Unit Method

Change in condition:

Melting point/Melting range: Not applicable as aerosol

Boiling point/Boiling range: Not applicable as aerosol

Flash point: Not applicable as aerosol

Ignition temperature: Propellant > 230°

Decomposition temperature: The cured foam may decompose at temperatures above 100°C. At Temperatures above 300°C self-ignition is possible.

Self-inflammability: Product is not self igniting

Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Critical values for explosion: Applicable for the propellant

Lower: 1.5 VC! %

Upper: 18.6 Vol %

Steam pressure: at 20 °C 5.5 - 6 bar

Density: at 20 °C 1.0-1.2 g/cm³

Solubility in / Miscibility with water: Not miscible or difficult to mix

10. STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

Dangerous reactions: Increasing inside pressure due warming up. Danger of bursting by Overheating.

Dangerous products of composition: No dangerous decomposition products known (at combustion)

11. TOXICOLOGICAL INFORMATION

Acute toxicity;

Primary irritant effects: On the skin: Irritant for skin when pasting.

On the eye: Irritant effect: danger of pasting.

Sensitisation: Sensitisation possible by inhalation. Not applicable for cured foam.

12. ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability): The cured foam is not biogradable.

13. DISPOSAL CONSIDERATIONS

Product: Contact waste processors for recycling information. continued on page 4

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Waste-Key-number; EAK 080409

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Polyurethane Cleaner.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: 2 Gases that are compressed, liquefied or dissolved under pressure.

Number/Letter: 5 F ADR

UN-Number: 1950

Designation of goods: Aerosols

Remarks: transport according to RN 220la:

Maritime transport IMDG/GGV Sea Class 2

UN Number: 1950

EMS Number: 2-13

MFAG: 370

Marine pollutant: no

Correct technical name: Aerosols

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 2.1

UN/ID Number: 1950

Correct technical name: Aerosols, Flammable

15. REGULATORY INFORMATION

Designation according to EC guidelines: The product has been labelled in accordance with EC Directives relevant national laws.

Code letter and hazard designation of product:

Xn Harmful

F+ Extremely flammable

Hazard-determining components of labelling:

Highly flammable propellants.

Diphenylmethane-4,4'-diisocyanate

Risk phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin

R 42/43 May cause sensitisation by inhalation and skin contact.

R 12 Extremely flammable

Safety phrases:

S2 Keep out of reach of children

S 23 Do not breathe fumes/gas/vapour/spay

S 25 Avoid contact with eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin, wash immediately with plenty of water and soap

S 37 Wear suitable gloves.

S 39 Wear protective goggles

S 45 In case of accident or if you feel unwell, seek medical advice immediately. (Show label where possible)

Special designation of certain preparation: Pressurised container. Protect from sun-light and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent object.

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Keep away from sources of ignition - no smoking.

Without adequate ventilation formation of explosive mixtures may occur.

Contains: Isocyanates. Observe manufacture's instructions.

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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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