



NATIONAL ADHESIVE DISTRIBUTORS cc

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT NAME: GLUE DEVIL PU FILFOAM

PRODUCT DESCRIPTION: Polyurethane foam is a one component, self- expanding, ready to use.

2. COMPOSITION

- Dangerous Substance :** Diphenylmethane-4,4'-di-isocyanate
- EINECS :** 202-966-0
- CAS :** 101-68-8
- Range (%) :** 5-<25%
- Symbol :** Xn
- R-Phrase :** R20-36/37/38-42

3. HAZARDS IDENTIFICATION

- R12:** Extremely flammable
- R36/37/38:** Irritating to eyes, respiratory system and skin.
- R42:** May cause sensitization by inhalation

4. FIRST AID MEASURES

- GENERAL INFORMATION:**
Remove affected person from danger area, lay down.
- INHALATION:**
Remove the casualty into fresh air and keep him calm.
In the event symptoms refer for medical treatment.
- SKIN CONTACT:**
In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.
- EYE CONTACT:**
In case of contact with eyes throughly with plenty of water and seek medical advice.
- INGESTION:**
Not applicable
- ADVICE TO DOCTOR/TREATMENT:**
Treat symptomatically



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5. FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:**
Water spray jet, dry powder, foam, sand
- EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:**
Full water jet
- SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF OR COMBUSTION PRODUCTS:**
Risk of formation of toxic pyrolysis products.
In the event of fire the following can be released : Hydrogen cyanide(HCN)
Nitrogen oxides(NO_x)
- SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:**
Do not inhale explosion and /or combustion gases.
Wear full protective suit and self contained breathing apparatus.
- ADDITIONAL INFORMATION:**
Fire residues and contaminated fire fighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

- PERSONEL PRECAUTION:**
Use breathing apparatus if exposed to vapors/dust/aerosol
Ensure adequate ventilation. Keep away sources of ignition
- ENVIRONMENTAL PRECAUTIONS:**
Not applicable
- METHODS FOR CLEANING UP/TAKING UP:**
Take up mechanically and use of a mild solvent.
Dispose as plastic waste (foam plastic) in accordance with all applicable guidelines and regulations.
Before disposing of containers, relieve container of any remaining foam and pressure. Allow foam to fully cure before disposing.

7. HANDLING AND STORAGE

- ADVICE ON SAFE HANDLING:**
Provide good room ventilation even at ground level (vapours are heavier than air)
Handle with care-avoid shock, friction and impact.
- ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:**
Emergency cooling must be provided for the eventuality of a fire in the vicinity.



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Keep away from sources of ignition-refrain from smoking.

- **REQUIREMENTS FOR STORAGE ROOMS AND VESSELS:**
Store in a cool and dry place
- **ADVICE ON STORAGE COMPALIBILITY:**
Do not store together with oxidizing agents. Do not store with combustible materials.
- **FURTHER INFORMATION ON STORAGE CONDITIONS:**
Protect from heat / overheating. Keep in a cool, heat causes increase in pressure and risk of bursting.

8. PERSONAL PROTECTION / EXPOSURE CONTROLS

ADDITIONAL ADVICE ON SYSTEM DESIGN:

- **EXPOSURE LIMITS**
Substance : Diphenylmethane-4,4'-di-isocyanate
Einecs : 202-966-0
CAS : 101-68-8
VALUE : MAK:0,005 ppm
- **RESPIRATORY PROTECTION:**
Breathing apparatus in the event of aerosol or mist formation
Short term: filter apparatus, combination filter A-P2
- **HAND PROTECTION:**
Protective gloves
- **EYE PROTECTION:**
Protective goggles
- **SKIN PROTECTION:**
Long sleeve work clothes.
- **GENERAL PROTECTIVE MEASURES:**
Do not inhale aerosols. Avoid contact with eyes and skin.
- **HYGIENE MEASURES:**
At work do not eat, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream

9. PHYSICAL AND CHEMICAL PROPERTIES

- FORM : Aerosol
- LOWER EXPLOSION LIMIT : -
- COLOUR : -
- UPPER EXPLOSION LIMIT : -



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• ODOUR	:	Characteristic
• COMBUSTIBLE PROPERTIES	:	Not applicable
• Ph-VALUE	:	Not applicable
• VAPOR PRESSURE	:	20°C
• MELTING POINT	:	-
• DENSITY	:	17±2 kg/m ³
• BOILING POINT	:	-
• SOLUBILITY IN WATER	:	Insoluble
• FLASH POINT	:	Not applicable
• PARTITION COEFFICIENT	:	- (n-octanol/water)
• FLAMMABILITY AUTO	:	
IGNITION TEMPERATURE	:	-
• VISCOSITY	:	Not applicable

10. STABILITY AND REACTIVITY

- **HAZARDOUS REACTIONS:**
Risk of bursting
- **HAZARDOUS DECOMPOSITION PRODUCTS:**
No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

• ACUTE ORAL TOXICITY	LD50 rat
• ACUTE INHALATION TOXICITY	LD50 rat
• IRRITANT EFFECT ON SKIN	ACUTE DERMAL TOXICITY LD50 rabbit
• IRRITANT EFFECT ON EYE	-
• SENSITIZATION	SUBACUTE TOXICITY
• CHRONIC TOXICITY	SUBCHRONIC TOXICITY
• MUTAGENICITY	REPRODUCTION TOXICITY
• CARCINOGENICITY	-
• EXPERIENCES MADE IN PRACTICE	none

GENERAL REMARKS

The product was classified on the basis of the calculation procedure of the preparation directive (88/379/EEC)
No toxicological data are available.

12. ECOLOGICAL INFORMATION

- PHYSICO CHEMICAL ELIMINABILITY BIOLOGICAL DEGRADABILITY
BIOLOGICAL ELIMINABILITY
DEGRADABILITY ACCORDING TO LAW OF WASH AND CLEANING AGENT (WRMG)



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Not applicable

- **BEHAVIOR IN ENVIRONMENT COMPARTMENTS**

First toxicity

- **DAPHANIA TOXICITY**

BACTERIA TOXICITY

BEHAVIOR IN SEWAGE PLANT

Not applicable

ALGAE TOXICITY

- **CHEMICAL OXYGEN DEMAND (COD)**

AOX-ADVISE

No dangerous components

BIOCHEMICAL OXYGEN DEMAND(BOD5)

- **CONTAIN FOLLOWING HEAVY METALS AND COMPOUNDS OF 76/464/EWG**

No dangerous components

- **GENERAL INFORMATION**

Ecological data are not available.

13. DISPOSAL CONSIDERATIONS

- **DISPOSAL / PRODUCT:**

Dispose of as hazardous waste.

- **DISPOSAL / CONTAMINATED PACKING:**

Packing that cannot be cleaned should be disposed of as for product

14. TRANSPORT INFORMATION

- **LAND TRANSPORT ADR/RID:**

Class/Division/Group : 2 5 A
Hazard-no :
UN-No : 1950
ADR-exceptions : Rn 2201 a
Description : Aerosols

15. INLAND WATERWAYS TRANSPORT

- **MARINE TRANSPORT / IMDG**

Class : 2.1
UN-Nr. : 1950
Packing group :
EmS : 2-13
MFAG : 4.2



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Marine :
Proper shipping name : Aerosols

- AIR TRANSPORT / ICAQ / IATA-DGR
Class : 2.1
UN-Nr. : 1950
Proper shipping name : Aerosols, 20

16. REGULATORY INFORMATION

- LABELING:**
The product is classified and labeled in accordance with EC directives / German regulations on dangerous substances.

Hazard symbols

Xn



Harmful

F+



Extremely Flammable

Harmful

Extremely flammable

CONTAINS: Diphenylmethane-4,4'-di-isocyanate

- R PHRASES:**
R12 : Extremely flammable
R36/37/38 : Irritating to eyes, respiratory system and skin.
R42 : May cause sensitization by inhalation.
- S PHRASES:**
S2 : Keep out of the reach of children.
S23.4 : Do not breathe spray.
S28.2 : After contact with skin, wash immediately with water and soap.
S51 : Use only in well ventilated areas.
- SPECIAL LABELING FOR CERTAIN PREPARATIONS:**
Container is under pressure. Protect from sun and temperatures above 50°C.
Do not open with force or incinerate even after use.



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Do not spray against an open flame or glowing hot objects. Keep away from sources of ignition-No smoking.
Observe manufacturer's instructions.

17. NATIONAL REGULATIONS (GERMAN ONLY)

Restriction of occupation	Yes
Decree for case of interference, observe limits	Yes
Classifications according to Vbf	Not applicable
Classifications according to TA-Luft	3.1.7
Water hazard class	WGK 2
Water hazard class / source	
Waste no.	51 06
Other regulations, restrictions and prohibition regulations	

18. OTHER INFORMATION

The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, of merchantability or fitness for a particular use are made hereunder with respect to this information or the product to this information or the product to which information refers.

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REVISED JUNE 2019