



SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

Use of the substance/preparation

Durabond Foam Filler - Polyurethane high-resistance foam

Manufacturer:

TKK proizvodnja kemičnih izdelkov Srpenica ob Soči d.d.

Srpenica 1, 5224 Srpenica, Slovenija

Tel.: 00386 (0)5 3841300, Fax: 00386 (0)5 3841390

Emergency Telephone Number : 00386 (0)5 3841300

Irish supplier: McLoughlins RS ,
Unit 5,
Northern Cross Business Park,
Finglas,
Dublin 11.

Telephone number: 01 8239200

Fax number: 01 8239222

2. Composition/information on ingredients

Chemical name	content %	CAS	EINECS, ELINCS	Symbol	R-phrases
Diphenylmethanediisocyanate, isomeres and homologues	40 - 60	9016-87-9 25791-96-2	--- ---	Xn/Xi Xn	20-36/37/38-42/43 22
Glycerine propoxylate	< 25	115-10-6	204-065-8	F+	12
Dimethyl ether	1 - 15	68476-85-7	270-704-2	F+	12
Petroleum gases, liquified	1 - 10				

For complete wording of the
R-phrases, refer to point 16

3. Hazards identification

3.1 Health Hazards

See point 11 and 15.

Preparation is classified as hazardous under directive 1999/45/EC.

Product is extremely flammable and harmful.

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

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

Inhalation:

Product is dangerous to health.

3.2 Environmental Hazards

See point 12.

4. First aid measures

4.1 Inhalation

Remove person from danger area.

Supply person with fresh air. Call doctor immediately.

Keep Data Sheet available.

Respiratory arrest - Artificial respiration apparatus necessary.

Delayed effects from exposure can be expected (Product is a respiratory irritant and respiratory sensitiser.)

4.2 Eye contact

Wash thoroughly for several minutes using copious amounts of water - call doctor immediately, have Data Sheet available.

4.3 Skin contact

Wash thoroughly with soap and copious amounts of water - remove contaminated clothing immediately.

If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Call doctor immediately - have Data Sheet available.

4.5 Special resources necessary for first aid

5. Fire-fighting measures

5.1 Suitable extinguishing media

Foam

Dry extinguisher

CO2

Large fire:

Cool at risk containers with water to minimise possibility of explosion.

5.2 Extinguishing media which must not be used for safety reasons

Water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Danger of bursting (explosion) when heated.

Toxic gases

Oxides of nitrogen

Oxides of carbon

Isocyanates

Hydrogen chloride

Traces possible:

Hydrocyanic acid (hydrogen cyanide)

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

6.2 Environmental measures

If leakage occurs, dam up.
 Prevent from entering drainage system.
 If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

If spray or gas escapes, ensure ample fresh air is available.
 Active substance:
 Collect using absorbent material (e.g. Universal binding medium), and dispose of according to point 13.
 Do not close packing drum.
 Keep moist.
 Allow to stand for a few days in an unclosed container until reaction no longer occurs.

7. Handling and storage

7.1 Handling

Procedures for safe handling:

See point 6.1
 Keep away from sources of ignition - Do not smoke.
 Ensure good ventilation.
 Suction measures at the workplace or on the processing machines required.
 Eating, drinking, smoking, as well as food-storage are prohibited in workroom.
 Wash hands before breaks and at end of work.
 Exposed employees should have regular medical check-ups.
 Use working methods according to operating instructions.
 Observe directions on label and instructions for use.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
 Observe special regulations for aerosols.
 Observe TRG 300 (German regulation).

Special storage conditions:

See point 10.2
 Protect against moisture and store closed.
 Keep protected from direct sunlight and temperatures over 50°C.
 Store cool

8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
Diphenylmethanediisocyanate, isomeres and homologues	40 - 60	0,02 mg/m3 (isocyanates, all (as -NCO))	9016-87-9
Dimethyl ether	1 - 15	400 ppm (766 mg/m3), 1000 ppm (1920 mg/m3) (EC)	115-10-6
Petroleum gases, liquefied	1 - 10	1000 ppm (1750 mg/m3)	68476-85-7

8.1 Respiratory protection: If OES-, MEL- or MAK-value is exceeded.
 Filter A-P2 EN 141
 8.2 Hand protection: Protective PVC gloves (EN 374).
 Protective gloves in butyl rubber (EN 374).
 Protective Neoprene gloves (EN 374).

Protective hand cream recommended.

8.3 Eye protection: Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection: Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications

9. Physical and chemical properties

Physical state:	Aerosol
Substance:	Liquid
Colour:	k.D.v.
Odour:	Characteristic
10 % pH-value:	k.D.v.
Boiling point / range (°C):	k.D.v.
Melting point / range (°C):	k.D.v.
Flammability (solid/gas):	k.D.v.
Minimum limit of explosion:	k.D.v.
Maximum limit of explosion:	k.D.v.
Vapour pressure:	k.D.v.
Relative density (g/ml):	k.D.v.
Solubility in water:	Insoluble
Viscosity:	N/A.

10. Stability and reactivity

10.1 Conditions to avoid

See point 7

Protect from humidity.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.2 Materials to avoid

See point 7

Exothermic reaction possible with:

Water

Amines

Alcohols

Development of:

Carbon dioxide

10.3 Hazardous decomposition products

See point 5.3

10.4 Additional information

Stabilizers necessary: k.D.v.

Stabilizers available: k.D.v.

11. Toxicological information

11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg): > 5000 *

11.1.2 Inhalation, LC50 rat inhal.(mg/l/4h): ~ 490 mg/m³/4h, Aerosol, *

11.1.3 Skin contact, LD50 rat dermal (mg/kg): k.D.v., Irritant

11.1.4 Eye contact:	Irritant
11.2 Delayed and chronic effects	
11.2.1 Sensitisation:	Yes (inhalation and skin contact)
11.2.2 Carcinogenicity:	6,0 mg/m ³ /2a pMDI, Increased incidence of lung tumours.
NOEL:	
0,2 mg/m ³ pMDI	
TRGS 905:	
Aerosol	
K3 *	
11.2.3 Mutagenicity:	k.D.v.
11.2.4 Reproductive toxicity:	k.D.v.
11.2.5 Narcosis:	k.D.v.
11.3. Further information	
Classification according to calculation procedure.	
The following may occur:	
Irritant to mucous of the nose and throat.	
Coughing	
Asthmatic symptoms	
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.	
* Diphenylmethanediisocyanate, isomeres and homologues	

12. Ecological information

Water hazard class:	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	0% / 28d *
With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide).	
According to experience available to date, polycarbamide is inert and non-degradable.	
Behaviour in sewage plants:	k.D.v.
Aquatic toxicity:	
Toxicity to daphnia:	
EC50 Daphnia magna > 1000 mg/l/24h *	
Toxicity to fish:	
LC0 Brachydanio rerio > 1000 mg/l/96h *	
LC50 Leuciscus idus > 100 mg/l **	
Ecological toxicity:	k.D.v.
* Diphenylmethanediisocyanate, isomeres and homologues	
** Glycerine propoxylate	

13. Disposal considerations

13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

16 05 04 gases in pressure containers (including halons) containing dangerous substances

20 01 27 paint, inks, adhesives and resins containing dangerous substances

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Do not perforate, cut up or weld uncleaned container.

14. Transport information

General statements

UN-Number: 1950

Road/Rail-transport (ADR/RID)

Class/packing-group: 2/-

1950 AEROSOLS

Classification code: 5F

LQ: 2

Transport by sea

IMDG-code: 2/- (class/packing-group)

EmS-Number: 2-13

Marine Pollutant: N/A.

AEROSOLS

Transport by air

IATA: 2.1/-2.1/-/- (class/secondary danger/packing-group)

Aerosols, flammable

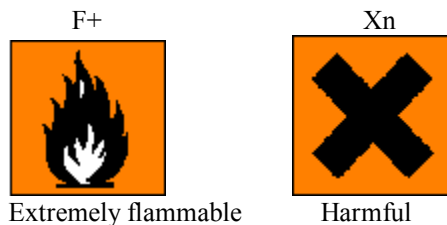
Additional information:

Danger code and packing code on request.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC and 1999/45/EC)

Symbols:



Indications of danger:

R-phrases:

20	Harmful by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitisation by inhalation and skin contact.

S-phrases:

(2)	Keep out of the reach of children.
23.c	Do not breathe spray.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28.b	After contact with skin, wash immediately with plenty of water and soap.
35	This material and its container must be disposed of in a safe way.
36/37	Wear suitable protective clothing and gloves.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
51	Use only in well-ventilated areas.

Additions:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking.
Keep out of the reach of children.
Without adequate ventilation formation of explosive mixtures may be possible.
Contains isocyanates. See information supplied by the manufacturer.
Diphenylmethanediisocyanate, isomers and homologues
Observe restrictions: Yes
Observe youth employment law (German regulation).
Observe law on protection of expectant mothers (German regulation).

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 2 B
Revised points: 1 - 16

20 Harmful by inhalation.

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

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

52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

22 Harmful if swallowed.

12 Extremely flammable.

Legend:

N/A. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard

MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place

(Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)

VbF = Regulations for flammable liquids (Germany) / TRbF = Technical regulations for flammable liquids (Germany)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds (VOCV - Switzerland) / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions – they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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