

EG-Safety data sheet in accordance with 91/155/EWG
1K Hand held grade / gun grade polyurethane foam B3-Quality.

Print date: November 12, 2002

Edition date: March 19, 2002

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1. Identification of product and company

Product name : **1K Hand held grade / gun grade polyurethane foam B3-Quality**
Supplier : AUTRA Den Braven Aerosol GmbH & Co. KG
Giebelstadter Weg 16
D - 97234 Reichenberg – Albertshausen
Germany
Telephone : 09366/9071-0
Facsimile : 09366/9071-22
Emergency phone number : 09366/9071-0

2. Composition

Chemical characterization: Polyurethane foam based on polyurethane prepolymer.

Hazardous ingredients:

CAS-Number	Name	Weight%	Danger symbol	Risk phrase
74-98-6/106-97-8	Propane/Butane	1-15	F+	12
115-10-6	Dimethylether	1-15	F+	12
9016-87-9	Diphenylmethane-4,4'-diisocyanate, Isomers und Homologues	30-45	Xn	20-36/37/38-42/43

3. Hazardous identification

Contains diphenylmethane-4,4'-diisocyanate. Harmful by inhalation, swallowing and skin contact. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. In case of very sensitive persons low concentrations can cause asthmatic reactions. During use formation of explosive vapor-oxygen mixtures are possible especially on the ground.

4. First aid measures

Inhalation : Fresh air and rest. Get medical attention if complaint persists.

Eyes : In case of contact flush eyes immediately with plenty of water for at least 15 minutes. Lift eyelids and rinse well underneath them. Get medical attention if irritation persists.

Skin : Remove completely with a dry cloth or paper towel, before washing with detergent and water. Get medical attention if irritation persists.

Ingestion : Rinse mouth with water several times. Consult a physician and show this Safety Data Sheet.

Clothes : Remove polluted clothing.

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5. Fire fighting measures

Fire extinguishers: no restrictions. (Powder, foam and water spray).

Wear protective clothing and breathing apparatus. Remove unexposed containers from the danger area. Cool with water, container may burst.

6. Accidental release measures

Select leaky cans and dispose as written under paragraph 1`3 „Disposal consideration“.

7. Handling and storage

Handling : Handle in well-ventilated area. Avoid contact with skin, eyes and do not swallow.

Storage : Store in closed packing between 5°C and 25°C away from direct sunlight and other sources of heat.

8. Exposure controls and personal protection

Contains propane/butane (MAK-value 1000 ppm), Dimethylether (MAK-value 1000ppm) and diphenylmethane-4,4'-diisocyanate (MAK-value 0,005 ppm).

Respiratory protection : Avoid breathing the vapor. Maintain good ventilation. Use mask with A2B2P3 filter. Portable respiratory protection device (EN 136-137-140-141-143-145-400-401-401-1061).

Eyes : Totally fitting safety glasses. Full-face protection (prEN 166).

Skin : Chemical resistant protection gloves (prEN420 and prEN 374 part 1-5). Recommended glove material: Neoprene, Nitrile-Butadiene-Rubber, and Butyl Rubber. Thin disposable gloves are not suitable for long-term usage. Chemical resistant safety clothing (EN 368).

Industrial hygiene : Wash hands with water and soap after work and before breaks. When using, do not eat, drink or smoke. Don't rub eyes with dirty hands.

9. Physical and chemical properties

Physical state : Aerosol
Color : Yellow
Odor : Odorless
Flash point : NA
Ignition temperature : > 300°C
Explosion limits : Lower: NA, Upper: NA
Vapor pressure [bar] : @20°C: 5,5 - @50°C: 11,0
Density @20°C [g/ml] : Approximately 1,1 (water = 1)
Solubility with water : Insoluble. Reacts slowly with water during curing, liberating traces of CO₂.
pH-value @20°C : NA
Viscosity @20°C [mPa.s] : NA

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10. Stability and reactivity

Hazardous decomposition product: non at appropriate use.

Materials to avoid: unknown.

Conditions to avoid: Keep away from sources of ignition. At temperatures >50°C the container may burst.

11. Toxicological information

Contains diphenylmethane-4,4'-diisocyanate (MAK-value 0,005 ppm). May cause sensitization by inhalation and skin contact. Avoid repeatedly contact or contact for a longer time. People with isocyanate allergy should not be in contact with the content. In case of very sensitive persons low concentrations can cause asthmatic reactions.

12. Ecological information

Avoid that uncured product will come in the environment.

WGK: 1 (self-assessment).

Ecotoxicity: unknown.

Degradability: unknown.

13. Waste disposal

Empty canister completely and let the sprayed material cure.

Waste code cured product (Germany, EAK): 20 01 06

Waste code empty cans (Germany, EAK): 15 01 99D1

14. Transport information

ADR/RID:

Name: Aerosols
UN-Number: 1950 Class: 2 Classification code: 5 A
Limited Quantities: LQ2 Danger label: 2.2

IMGD-code:

Name: Aerosols
UN-Number: 1950 Class: 2
EmS-Nr.: 2-13 Marine pollutant: no

ICAO/IATA-DGR:

Name: Aerosols, non-flammable
UN-Number: 1950 Class: 2.2

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15. Regulatory information

This product is subject to the labeling requirements of EC directives 67/548/EC.

Risk phrases:

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



HARMFULL



**EXTREMELY
FLAMMABLE**

**Contains Diphenylmethane-
4,4'-Di-Isocyanate, isomers and homologues**

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

Contains isocyanates. See information supplied by manufacturer.

Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Pressurised 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. In use, may form flammable/explosive vapour-air mixture. Dispose of this material and its container to hazardous or special waste collection point.

16. Other information

This product safety data sheet conforms to EC Directive 91/155/EEC as well as its amendments. Earlier editions of this safety sheet expire with this.