

MANNOL[®] MATERIAL SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

<p>1. PRODUCT AND COMPANY IDENTIFICATION Product Name: Textile Foam Product Use: Upholstery foam cleaner Date of issue : 12.12.2010 Revision Date : 15.01.2013 Company Information: Sudheimer Car Technik Vertriebs GmbH Address: Feldstrasse 154, 22880 Wedel, Germany Information telephone : +49 (0) 4103 1211 118 Emergency telephone : +49 (0) 4103 1211 0 E-mail : info@sct-germany.de Fax : +49 (0) 4103 1211 116</p>

<p>2. COMPOSITION/INFORMATION ON INGREDIENTS To people See point 11 and 15. The mixture is classified as dangerous in the terms of the directive 1999/45/EC. Product is extremely flammable. 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. To the environment See point 12.</p>

3. HAZARDS IDENTIFICATION			
Chemical			
Content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)	Classification categories	
Sodium lauryl ether carboxylate			
1-<5	Xi	36	265-151-9
Ammonia			
0,01-<1	C/N	34-50	215-647-6

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

4. FIRST AID MEASURES

4.1 Inhalation: Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

4.2 Skin contact: Skin thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.3 Eye contact: Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Keep data sheet available.

4.4 Ingestion: Call doctor immediately – have Data Sheet available.

4.5 Special resources necessary for first aid:

Indications for the physician: Symptomatic treatment.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media: Co₂; Extinction powder; Cool container at risk with water.

5.2 Extinguishing media which shall not be used for safety reasons: High volume 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:

Oxides of carbon;

Hydrocarbons;

Toxic pyrolysis products;

Danger of explosion by prolonged heating;

Explosive vapour/air mixture;

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.4 Special protective equipment for fire-fighters:

Protective respirator with independent air supply.

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.

6.2 Environmental precautions: Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. Prevent surface and ground-water infiltration, as well as ground penetration.

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.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation. Keep away from sources of ignition-Do not smoke. Take measures against electrostatic charging, if appropriate. Do not use on hot surfaces. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Wash hands before breaks and at end of work. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.2 Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells. Store product closed and only in original packing. Observe special regulations for aerosols.

Special storage conditions:

See point 10.

Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place.

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the „Betriebssicherheitsverordnung“).

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical name	Ammonia	Content % 0,01-<1
WEL-TWA: NH ₃ 25 ppm (18mg /m ³) (WEL), 20 ppm (14mg /m ³) (EC)	WEL-STEL: NH ₃ 35 ppm (25mg /m ³) (WEL), 50 ppm (36mg /m ³) (EC)	---
BMGV: ---	Other informations: ---	

Chemical name	Propane	Content % 30-40
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
BMGV: ---	Other informations: ---	

Chemical name	Butane	Content %
WEL-TWA: 600 ppm (1450 mg /m ³)	WEL-STEL: 750 ppm (1810 mg /m ³)	---
BMGV: ---	Other informations: ---	

Chemical name	Isobutane	Content %
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
BMGV: ---	Other informations: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit-Short-terme exposure limit (15-minute

reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Respiratory protection: Normally not necessary

If OES or MEL is exceeded. Gas mask filter AX (EN 14387)

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Hand protection: Protective nitrile gloves (EN 374)

Minimum layer thickness in mm: 0,35

Permeation time (penetration time) in minutes: 30

Protective hand cream recommended:

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

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

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Substance:	Liquid
Colour:	n.av.
Odour:	Lemon
pH-value undiluted:	n.av.
Boiling point/boiling range (°C):	n.av,
Melting point/melting range (°C):	n.av.
Flash Point: (°C):	n.a.
Ignition temperature:	No
Oxidising properties:	n.a.
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.c.
Density (g/ml):	n.c
Water solubility:	Mixable
Viscosity:	n.a.

10. STABILITY AND REACTIVITY

Conditions to avoid: See point 7 Stable when handled and stored correctly. Heating, open flame, ignition sources. Pressure increase will result in danger of bursting

Materials to avoid:

See point 7

Avoid contact with oxidizing agents.

Hazardous decomposition products:

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg): n.av.

Inhalation, LC50 rat inhal. (mg/l/4h): n.av.

Skin contact, LD50 rat dermal (mg/kg): n.av.

Eye contact: n.av.

Delayed and chronic effects

Sensitization: n.c.

Carcinogenicity: n.c.

Mutagenicity: n.c.

Reproductive toxicity: n.c.

Narcosis: Possible

Further information

No classification according to calculation procedure

The following may occur:

Irritation of the respiratory tract

Irritation of the eyes

Skin irritation possible with prolonged contact.

12. ECOLOGICAL INFORMATION

Water hazard class (Germany): 1

Self classification: Yes (VwVwS)

Persistence and degradability:

The surfactant(s) contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at

Behaviour in sewage plants:

According to the recipe, contains no AOX.

Aquatic toxicity: n.av.

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. (2001/118/EC, 2001/119/EC, 2001/573/EC) 16 05 04 gases in pressure containers (including halons) containing dangerous substances Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site

13.2 For contaminated packing material

See point 13.1

Pay attention to local and national official regulations;

Recommendation:

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/- UN 1950 AEROSOLS

Classification code: 5F

LQ: 2

Tunnel restriction code: D

Transport by sea

IMDG-code: 2.1/- (class/packing group)

EmS: F-D, S-U

Marine Pollutant: n.a.

AEROSOLS

Transport by air

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

Hydrocarbons, liquid, n.o.s

Additional information:

Danger code and packing code on request.

15.REGULATORY INFORMATION

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



Symbols: F+

Indications of danger:

Extremely flammable

R-phrases:

S-phrases:

23.f Do not breathe vapour/spray.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

56 Dispose of this material and its container to hazardous or special waste collection point.

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.

Observe restrictions: Yes

Observe incident regulations.

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

VOC 1999/13/EC ~ 10%

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 2B

Revised points: 2, 3, 15

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

36 Irritating to eyes

34 Causes burns

50 Very toxic to aquatic organisms.

Legend

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany) VbF = Regulations for flammable liquids (Austria)

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

VOC = Volatile organic compounds / 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.