

PROLED®

MBN GmbH · Engelschalkstr. 5 · 86316 Friedberg · Germany

MBN LED®

MBN
EVENTPRODUCTS

Friedberg, Date of fax or e-mail ID.

Dear Ladies and Gentlemen,

enclosed you will receive the EC-safety datasheet for the MBN foamfluid.

Please note that the data declared in the data sheet concern the concentrate, not watered down.

The ratio is 1-2 litres concentrate per 100 litres of water. One liter of foamfluid (1l water with 0,01 – 0,02 l concentrate) produces 1-2 m³ foam. Therefore one m³ foam contains a maximum of 0,02 l concentrate.

The EC-safety datasheet can be produced together with this writing to your local authorities, the office for environmental protection or the town clerk's office, as far as necessary in your region.

For further questions the authority in charge can also contact MBN.

The MBN foamfluid was tested dermatologically (*proDERM* Institut for applied dermatological research GmbH, Priv.Doz. Dr. med. Klaus-Peter Wilhelm and Dr. med. Walter Wigger-Alberti) and was judged with the result: very well tolerable on skin.

Further we confirm hereby, that MBN distributes the foamfluid and the foam generators since 1995 world wide and that at several thousand foam events up to our knowledge no damage has occurred on skin or mucous membranes.

With best regards,

MBN Eventproducts GmbH

Bernd Menrad
Managing Director

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PROLED® MBN LED® MBN
EVENTPRODUCTS

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: MBN Foamfluid
Revision date: 07.08.2009
Date of print: 03.09.2009

Version : 1.0
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01. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

MBN Foamfluid

REACH registration number:

This product is a preparation according to (EC) No. 1907/2006 (REACH). All components have been properly pre-registered.

Use of the substance / preparation

The MBN foam fluid is specially developed for foam parties.

Manufacturer / Supplier:

MBN Eventproducts GmbH

Street:

Engelschalkstr. 5

Country / Postal code / City:

D - 86316 Friedberg

Information contact:

MBN Eventproducts GmbH - Abteilung Produktsicherheit

Information Telephone / Telefax / Email

+49 821 60099-0 / +49 821 60099-99 / safety@mbngermany.de
Only available during office hours.

Emergency telephone:

Telephone: +49 551 19240 - Giftinformationszentrum Nord der Universität Göttingen

02. Hazards identification

Classification

Classification according to Regulation (EC) No 1272/2008 [CLP]:



Warning - H 319 - Causes serious eye irritation.

Classification according to 67/548/EEC or to 1999/45/EEC:



Xi - R 36 - Irritating to eyes

Informations pertaining to special dangers for human and environment:

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

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03. Composition/information on ingredients

Chemical characterisation

Foam fluid based on detergents.

Hazardous ingredients:

Substance name: Butyldiglycol

EG-No: 203-961-6 CAS-No: 112-34-5 REACH registration number:
Concentration: 10 – 25 %
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Classification according 67/548/EEC: Xi – R36 – Irritating to eyes

Substance name: Alcohols, (C12-14) , Ethoxylated, Monoethers With Sulfuric Acid, Sodium Salts

EG-No: 204-000-3 CAS-No: 68891-38-3 REACH registration number:
Concentration: 10 – 20 %
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Classification according 67/548/EEC: Xi – R36/38 – Irritating to eyes and skin

Substance name: 1-Dodecanol

EG-No: 203-982-0 CAS-No: 112-53-8 REACH registration number:
Concentration: 1 – 5 %
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Classification according 67/548/EEC: Xi – R36/38 Irritating to eyes and skin
N - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Substance name: 1-Tetradecanol

EG-No: 204-000-3 CAS-No: 112-7-1 REACH registration number:
Concentration: 1 – 5 %
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Classification according 67/548/EEC: the product does not have to be labelled.

Substance with a common (EC) occupational exposure limit value:

Substance name: Butyldiglycol

EG-No: 203-961-6 CAS-No: 112-34-5 REACH registration number:
Concentration: 10 – 25 %
COMMISSION DIRECTIVE 2006/15/EC

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04. First aid measures

General informations:

Remove contaminated clothing immediately and dispose off safely.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest. Seek medical advice.
If unconscious place in recovery position and seek medical advice.

In case of skin contact:

Wash immediately with: Water and soap

In case of eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

In case of ingestion:

Do NOT induce vomiting. Seek medical advice.

Information to physician:

No information available.

05. Fire-fighting measures

Suitable extinguishing media:

The product is not flammable

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

Special protective equipment for fire-fighters:

Additional information:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

06. Accidental release measures

Personal precautions:

Provide adequate ventilation. Wear personal protection equipment. Keep unprotected people away. Wear breathing apparatus if exposed to vapours and/or aerosols.

Environmental precautions:

Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

Methods for cleaning up:

Suitable material for taking up: Sand, Sawdust or Chemical binding agents.
Treat the recovered material as prescribed in the section on waste disposal.

Additional information:

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07. Handling and Storage

Advices on safe handling

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used..

It is recommended to design all work processes always so that the following is excluded: skin contact and eye contact.

Precautions against fire and explosion:

The product is not flammable.

Additional information:

Technical measures and storage conditions:

Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean.

Shafts and sewers must be protected from entry of the product.

After use replace the closing cap immediately.

Specific uses:

Note instructions for use (product label).

08. Exposure controls / Personal protection

Exposure limit values and/or Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Substance name: Butyldiglycol CAS-No: 112-34-5

Source: COMMISSION DIRECTIVE 2006/15/EC

Long term occupational exposure limit value: 10 ppm / 67,5 mg/m³ (milligrams per cubic metre of air at 20 °C and 101,3 kPa)

Short term occupational exposure limit value: 15 ppm / 101,2 mg/m³ (milligrams per cubic metre of air at 20 °C and 101,3 kPa)

Additional information: ---

Exposure controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Respiratory protection:

No personal respiratory protective equipment normally required.

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Hand protection:

By short-term hand contact:

Hand protection not required. After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.

By long-term hand contact:

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Check leak tightness / impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Take recovery periods for skin regeneration.

Eye protection:

Suitable eye protection: Eye glasses with side protection.

General health and safety measures:

Wash hands and face before breaks and after work and take a shower if necessary. Thorough skin-cleansing after handling the product. After cleaning apply high-fat content skin care cream. Immediately remove any contaminated clothing, shoes or stockings..

Environment protection regulations:

See sections 6 and 7. No additional measures necessary.

09. Physical and chemical Properties

Appearance

Physical state: Liquid.
Colour: colourless.
Odour: odourless.

Safety relevant basis data:

Explosives	The product is not explosive.		
Lower explosion limit (Vol-%):	for Butyldiglycol	0,7 Vol.-%	Source: GESTIS Stoffdatenbank CAS 112-34-5
Upper explosion limit (Vol-%):	for Butyldiglycol	5,3 Vol.-%	
Density:	at 20°C	0,985 g/cm ³	
Water solubility:	Partially miscible.		
pH value at 20 °C:	6,5 – 8,5		
Boiling temperature / boiling range:	100°C		
Flash point:	105°C		
Auto Ignition temperature:	225°C		

10. Stability and Reactivity

Conditions to avoid:

Materials to avoid:

Hazardous decomposition products:

No hazardous decomposition products known.

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11. Toxicological information

Toxicological Classification according to Regulation (EC) No 1272/2008 [CLP] and 67/548/EEC or to 1999/45/EEC.

Toxicological tests:

No data available.

Practical experience / human experience:

No data available.

Information on ingredients:

CAS 112-34-5 – Butyldiglycol

Oral: LD50: 5660 mg/kg (rat)

Dermal: LD50: 4000 mg/kg (rabitt)

CAS 68891-38-3 – Alcohols, (C12-14) , Ethoxylated, Monoethers With Sulfuric Acid, Sodium Salts

Oral: LD50: > 2000 mg/kg (rat)

CAS 112-53-8 – 1-Dodecanol

Oral: LD50: > 2000 mg/kg (rat)

CAS 112-72-1 – Tetradecanol

Oral: LD50 > 2000 mg/kg (rat)

Dermal: LD50: > 2000 mg/kg (rabitt)

12. Ecological information

Ecotoxicity

CAS 112-34-5 – Butyldiglycol

LC50 (48h) > 1000 mg/l (Leucidus idus)

EC50 (24h) 3300 mg/l (Daphnia magna)

CAS 68891-38-3 – Alcohols, (C12-14) , Ethoxylated, Monoethers With Sulfuric Acid, Sodium Salts

LC50 (96h) 15mg/l (Trout)

EC50 (48h) 18mg/l (Daphnia Magna) OEDC202

EC50 Bakterientoxizität >1000 mg/l (Pseudomonas magna)

CAS 112-53-8 – 1-Dodecanol

LC50 (96h) 1-10 mg/l (Leucidus idus)

EC50 (48h) < 1 mg/l (Daphnia magna)

CAS 112-72-1 – Tetradecanol

No data available.

Mobility

No data available.

Persistence and degradability

Readily biodegradable (according to OECD criteria).

Bioaccumulative potential

No data available.

Results of PBT assessment

No data available.

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13. Disposal considerations

Product:

Dispose of waste according to applicable local, state, and federal regulations.

Recommendation:

Delivery to an approved waste disposal company.

List of proposed waste codes/waste designations in accordance with EWC:

Allocation of the waste code numbers according EC Directive 91/692/EEC must be realized under considerations of existing sector specifics and processes.
Waste code number (proposal): 07 06 08

Appropriate disposal / package:

Non-contaminated packages may be recycled. Contaminated packages must be completely emptied and can be re-used following proper cleaning.

14. Transport information

Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

Sea transport (IMDG):

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI / IATA-DGR):

No dangerous good in sense of this transport regulation.

15. Regulatory information

Chemical Safety Assessment:

A Chemical safety assessment for this preparation was not carried out.

Labelling (Regulation (EC) No 1272/2008)

Hazard pictograms and hazard statements of dangerous substances and mixtures:



Signalword: Warning

Hazard Statements:

H 319 Causes serious eye irritation.

Precautionary Statements:

P 264 Wash hands thoroughly after handling.
P 305 + P 351 + P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P 337 + P 313 If eye irritation persists: Get medical advice/attention.

Other regulations (EU):

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16. Other information

Recommended restrictions on use:

The MBN foam fluid is specially developed for foam parties.

Risk-phrases in section 2 and 3:

R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Further information:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Data changed compared with the previous version:

Complete revision according to Regulation (EC) No 1907/2006 (REACH).

Department issuing MSDS:

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