



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 1 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: PUSTEFIX bubble liquid DMG15001
Certification ID: DMG 15001

1.2. Relevant identified uses of the substance or mixture and uses advised against

relevant identified use:
Toy - soap bubbles

uses advised against:
any other use

reason why uses advised against:
The fluid was only tested for the use as soap bubbles. Any damage by other uses can not be ruled out.

1.3. Details of the Supplier of the safety data sheet

Dr. Rolf Hein GmbH
Bahnhofstr. 29
D-72072 Tübingen (Germany)
Telephone: +49-(0)7071-791005
Fax: +49-(0)7071-791007

Technical Information

Telephone: +49-(0)7071-791005

1.4 Emergency telephone number

+49-7071-791005

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP):
none

2.2 Label elements

none

2.3 Other hazards

none known

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Characterisation: Aqueous solution of anionic surfactant, polymer blend, solvents and biostabilizers.

Hazardous ingredients

diethylene glycol, EC-No.: 203-872-2; CAS-No.: 111-46-6; ; REACH-Registration No.: not existing

Content: 1.0 - 2.0%

Classification

Acute toxicity, category 4; H302

Specific target organ toxicity (STOT) – repeated exposure, category 2; H373

For full text of H-statements: see SECTION 16



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 2 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

On the occurrence of symptoms or in cases of doubt seek medical advice.

Inhalation

There are no special measures required.

Skin contact

Product is not classified skin irritant. Flush with water.

Eye contact

Remove contact lenses. Rinse open eyes immediately and long enough with plenty of water. For persistent symptoms, consult an oculist.

Ingestion

If swallowed do not induce vomiting. If possible give defoaming pharmaceutical against flatulences, e.g. Lefax®, Espumisan®, etc. Immediately wash out mouth thoroughly with water and rinse water back out. In case of vomit keep the head in deep position to prevent aspiration of vomit. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
not applicable; product is non-flammable

Unsuitable extinguishing media:
not applicable; product is non-flammable

5.2 Special hazards arising from the substance or mixture

none known

5.3 Advice for firefighters

Avoid strong water jet - severe foaming.
The product itself does not burn.
Adapt firefighting measures on surrounding fire.

SECTION 6: Accidental release measures

General Notes

Slippery by expiring product.

6.1 Personal precautions, protective equipment and emergency procedures

See protective measures in Section 7 and 8.

6.2 Environmental precautions

Prevent that a large quantity of product enters drains/surface, water/ground-water or soil/subsoil.

6.3 Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. absorbing material, organic, sand, kieselguhr, universal binder). Clear contaminated areas finally with water.

6.4 Reference to other sections

Refer to Section 13 for disposal of product and contaminated materials.



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 3 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do NOT eat, drink and smoke in working areas.

Wash hands after use.

Avoid more than short term skin contact. If it is not possible, protect exposed areas from contact. Hands can be protected by using water-impermeable gloves. Remove the gloves before the use of other objects (e.g. door handles, taps) to avoid further pollution.

Take off polluted working clothes before entering eating areas.

Clean polluted containers from the outside before storage. Make sure, the containers are tightly closed before cleaning.

Avoid splashing of the liquid on huge areas.

Precautions against fire and explosion

No special fire protection measures are required.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat and direct sunlight and frost. Store in a cool and dark place to ensure the product quality.

Keep container tightly closed.

Hints on storage assembly

Keep separated from foodstuffs.

Storage class:

Storage class 12: Non-combustible liquids that cannot be assigned to any of the above storage classes (TRGS 510)

Specific use

Toy - Bubbles

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Limits for occupational exposure and / or biological limit values

diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:

workplace exposure limit United Kingdom: limit value eight hours: 23 ppm; 101 mg/m³

Information on monitoring procedures

not available

8.2 Exposure controls

No personnel protective equipment necessary for intended use.

See section 7. No exceeding expected, when working in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

No data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance:	colourless to slightly yellow, transparent viscous liquid
(b) Odour:	Odourless, some samples of product-specific odour
(c) Odour threshold:	not determined



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 4 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

(d) pH:	6.0 - 8.0
(e) Melting point/freezing point:	not determined, due to composition: -4 to 0 °C.
(f) Initial boiling point and boiling range:	not determined, due to composition: 100 to 102 °C.
(g) Flash point:	not applicable
(h) Evaporation rate:	not determined
(i) Flammability (solid, gas):	not applicable
(j) Upper/lower flammability or explosive limits:	not applicable
(k) Vapour pressure:	not determined, due to composition: 23 hPa (water)
(l) Vapour density:	not determined
(m) Relative density:	1,006 kg/l ± 0,005 kg/l at 25°C
(n) Solubility(ies):	miscible with water
(o) Partition coefficient: n-octanol/water:	not determined
(p) Auto-ignition temperature:	not applicable
(q) Decomposition temperature:	not applicable
(r) Viscosity:	drainage time 30 to 31 s at 25 °C (DIN 53211 cup), viscosity may change due to storage conditions and storage time.
(s) Explosive properties:	not to be expected
(t) Oxidising properties:	not to be expected

9.2 Other information

No information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

None under normal use.

10.2 Chemical stability

The mixture is chemically stable.

10.3 Possibility of hazardous reactions

At contact with substances, that react hazardous with water.

10.4 Conditions to avoid

Temperatures below melting point and above boiling point. Reason: the container may be damaged.

10.5 Incompatible materials

Substances which react with water.

10.6 Hazardous decomposition products

none known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

For the following toxicological categories there is no data available on the preparation itself. The preparation has been assessed following the conventional method of /1272/2008 and classified for toxicological hazards accordingly.



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 5 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

- (a) acute toxicity:
Acute Toxicity Estimates (oral): > 5 000 mg/kg bw
Acute Toxicity Estimates (dermal): > 5 000 mg/kg bw
Inhalative Toxicity: no ingredient is classified inhalative toxic..
- (b) skin corrosion/irritation:
based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation:
based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitisation:
based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity:
based on available data, the classification criteria are not met.
- (f) carcinogenicity:
based on available data, the classification criteria are not met.
- (g) reproductive toxicity:
based on available data, the classification criteria are not met.
- (h) STOT-single exposure:
based on available data, the classification criteria are not met.
- (i) STOT-repeated exposure:
based on available data, the classification criteria are not met.
- (j) aspiration hazard:
based on available data, the classification criteria are not met.

Information on the ingredients

diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:

LD 50 (oral, rat): 12565 mg/kg

LD 50 (dermal, rabbit): 11890 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

There is no ecological data available on the preparation itself. The preparation has been assessed following the conventional method of EC/1272/2008 and is classified for eco-toxicological properties accordingly.

Aviable Data for the substances listed in Section 3.2:

Diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:

LC50, 96h *Gambusia affinis*: >100 mg/l

EC50, 48h *Daphnia magna*: >10000 mg/l

EC10, 16h *Pseudomonas putida*: >100 mg/l

EC50, 5d *Selenastrum capricornutum*: >100 mg/l

12.2 Persistence and degradability

The degradability of the non-aqueous components exceeds 60% within 28 days. The mixture is readily biodegradable.

Aviable Data for the substances listed in Section 3.2:

Diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:

Method: OECD 301A / ISO 7827; Method of analysis: DOC-reduction: grade of elimination: > 70% (28 d).

12.3 Bioaccumulative potential

Aviable Data for the substances listed in Section 3.2:

Diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:

This product has a low potential of bioaccumulation (BCF < 100 or log pOW < 3).



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 6 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

12.4 Mobility in soil

Aviable Data for the substances listed in Section 3.2:

Diethylene glycol, EC-No.: 203-872-2, CAS-No.: 111-46-6:
Very high potential for mobility in soil (pOC: 0-50))

12.6 Other adverse effects

no data aviable

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Amounts suitable for an average household can be disposed of as domestic waste. Larger amounts of liquid should not be disposed of by release to sewers or environment.

Cleaned containers can be disposed of as domestic waste.

Advice for waste treatment of lager amounts

The appropriate waste management method should be coordinated with the waste treatment operator. The product should not be disposed of by release to sewers.

washing water from cleaning processes

waste code: 16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01

uncleaned containers

waste code: 15 01 02 plastic packaging

contaminated protective clothing, absorbing material and wipes

waste code: 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

(unusable) product and remains

waste code: 20 03 01 mixed municipal waste

SECTION 14: Transport Information

Land transport ADR/RID

Not classified as dangerous good within the meaning of these transport regulations.

Sea transport IMDG

Not classified as dangerous good within the meaning of these transport regulations.

Air transport ICAO/IATA

Not classified as dangerous good within the meaning of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to EC directive

No labelling required. The classification has been assessed following the conventional method of Regulation (EC) No 1272/2008 (CLP) .

National regulations:

Water hazard class (Germany): WGK 1, classification according VwVwS, Annex 4 No 3

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.



Safety-Data-Sheet

Confirms to Regulation (EC) No. 1907 / 2006

Version: 1.0 / GB

Print date: 15.09.15

Page 7 of 7

Revision date: 15.09.15

PUSTEFIX bubble liquid DMG15001

SECTION 16: Other information

Relevant hazard statements (Number and full text)

H302: Harmful if swallowed

H373: May cause damage to kidney through prolonged or repeated exposure.

Sources

EU legislation: 1907/ 2006/EG
EC No 1272/2008 (CLP):
Guidance on the compilation of safety data sheets Version 3.0 August 2015
German legislation: Chemikalienverbotsverordnung
Chemikaliengesetz

Responsible for his Safety Data Sheet

DMG Chemie GmbH
Heiterblickstraße 42
04347 Leipzig

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.

Changes to the previous version are marked by | .