

EU safety data sheet

Trade name: BOMBENFEST

Product no.: FHPU

Current version : 2.2.1, issued: 16.06.2020

Replaced version: 2.2.0, issued: 27.06.2018

Region: GB

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

1.1 Product identifier

Trade name

BOMBENFEST

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

Relevant identified uses of the substance or mixture

Chemical product for building, modernising and repairing.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

LUGATO GmbH & Co. KG

Großer Kamp 1

D-22885 Barsbüttel

Telephone no. +49 (0)40 694 07-0

Fax no. +49 (0)40 694 07-109 + 110

Information provided by / telephone

Department TS, telephone +49 40 694 07-222

e-mail: technik@lugato.de

Advice on Safety Data Sheet

technik@lugato.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Not relevant

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture (preparation)

Hazardous ingredients

| No | Substance name | Additional information | |
|----|---|--|------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | trimethoxy(vinyl)silane | | |
| | 2768-02-7 220-449-8 - 01-2119513215-52 | Acute Tox. 4; H332 Flam. Liq. 3; H226 | < 2.00 %-b.w. |

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| | | | |
|---|--|--------|--------|
| 2 | Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxododecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis- | | |
| - 907-495-0 - 01-2119545465-35 | Aquatic Chronic 3; H412 | < 2.00 | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air.

After skin contact

Remove with a cloth or paper. Wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Water spray jet; Extinguishing powder; Carbon dioxide

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Sulphur oxides (SxO_y); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

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Take up mechanically. When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original.

Incompatible products

Do not store together with: oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|----|--|---------|---------------------------|
| 1 | methanol | 67-56-1 | 200-659-6 |
| | 2006/15/EC | | |
| | Methanol | | |
| | WEL long-term (8-hr TWA reference period) | 260 | mg/m ³ 200 ppm |
| | Skin resorption / sensibilisation | Skin | |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Methanol | | |
| | WEL short-term (15 min reference period) | 333 | mg/m ³ 250 ppm |
| | WEL long-term (8-hr TWA reference period) | 266 | mg/m ³ 200 ppm |
| | Comments | Sk | |

DNEL, DMEL and PNEC values

DNEL values (worker)

| No | Substance name | CAS / EC no | | |
|----|---|---------------------|----------|------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | trimethoxy(vinyl)silane | | | 2768-02-7 220-449-8 |
| | dermal | Long term (chronic) | systemic | 3.9 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 27.6 mg/m ³ |
| 2 | Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis- | | | - 907-495-0 |

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| | | | | | |
|--|------------|---------------------|----------|------|--------------------|
| | dermal | Long term (chronic) | local | 3.75 | mg/cm ² |
| | inhalative | Short term (acute) | systemic | 3 | mg/m ³ |
| | inhalative | Long term (chronic) | local | 3 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|----|---|---------------------|----------|------------------------|--------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | trimethoxy(vinyl)silane | | | 2768-02-7 220-449-8 | |
| | oral | Long term (chronic) | systemic | 0.3 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 7.8 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 18.9 | mg/m ³ |
| 2 | Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis- | | | - 907-495-0 | |
| | oral | Long term (chronic) | systemic | 0.56 | mg/kg/day |
| | dermal | Long term (chronic) | local | 3.75 | mg/cm ² |

PNEC values

| No | Substance name | | CAS / EC no | |
|----|---|-----------------------|------------------------|------------------|
| | ecological compartment | Type | Value | |
| 1 | trimethoxy(vinyl)silane | | 2768-02-7 220-449-8 | |
| | water | fresh water | 0.4 | mg/L |
| | water | Aqua intermittent | 2.4 | mg/L |
| | water | marine water | 0.04 | mg/L |
| | water | fresh water sediment | 1.5 | mg/kg dry weight |
| | water | marine water sediment | 0.15 | mg/kg dry weight |
| | soil | - | 0.06 | mg/kg dry weight |
| | sewage treatment plant | - | 6.6 | mg/L |
| 2 | Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis- | | - 907-495-0 | |
| | water | fresh water | 0.74 | mg/L |
| | water | marine water | 0.074 | mg/L |
| | soil | - | 3714.9 | mg/kg dry weight |

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

| | | | |
|----------------------|----------------|------|-----|
| Appropriate Material | nitrile rubber | | |
| Material thickness | | 0.12 | mm |
| Breakthrough time | <= | 10 | min |

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Other

Light protective clothing

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | |
|--|---|-----|-----|
| Form/Colour | | | |
| pasty | | | |
| white; grey | | | |
| Odour | | | |
| characteristic | | | |
| Odour threshold | | | |
| No data available | | | |
| pH value | | | |
| No data available | | | |
| Boiling point / boiling range | | | |
| No data available | | | |
| Melting point / melting range | | | |
| No data available | | | |
| Decomposition point / decomposition range | | | |
| No data available | | | |
| Flash point | | | |
| Value | > | 100 | °C |
| Ignition temperature | | | |
| Value | > | 200 | °C |
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapour pressure | | | |
| Value | < | 100 | hPa |
| Reference temperature | | 20 | °C |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |

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| Density | |
|-----------------------|------------------------|
| Value | 1.57 g/cm ³ |
| Reference temperature | 20 °C |

| Solubility in water | |
|---------------------|-----------|
| Comments | insoluble |

| Solubility(ies) | |
|-------------------|--|
| No data available | |

| Partition coefficient: n-octanol/water | |
|--|--|
| No data available | |

| Viscosity | |
|-------------------|--|
| No data available | |

9.2 Other information

| Other information | |
|--------------------|--|
| No data available. | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

Reacts with water liberating methanol.

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

Oxidizing agents; Acids

10.6 Hazardous decomposition products

Formation of low quantities of methanol through contact with water (moisture in the air) is possible. Nitrous oxides (NO_x); Sulphurous oxides (SO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute oral toxicity | | | |
|---------------------|-------------------------|-------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LD50 | | 7120 - 7236 | mg/kg bodyweight |
| Species | rat | | |
| Source | Manufacturer | | |

| Acute dermal toxicity | | | |
|-----------------------|-------------------------|-----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LD50 | | 3200 | mg/kg bodyweight |
| Species | rabbit | | |
| Source | Manufacturer | | |

| Acute inhalational toxicity (result of the ATE calculation for the mixture) | |
|---|--|
| No | Product Name |
| 1 | BOMBENFEST |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / |

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| | |
|--|--|
| | labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists). |
|--|--|

| Acute inhalational toxicity | | | |
|-----------------------------|-------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LC50 | | 16.8 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |

| Skin corrosion/irritation | | | |
|---------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Serious eye damage/irritation | | | |
|-------------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|-------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Route of exposure | Skin | | |
| Species | guinea pig | | |
| Method | OECD 406 | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |

| Germ cell mutagenicity | | | |
|---------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Type of examination | in vitro gene mutation study in mammalian cells | | |
| Species | Chinese hamster Ovary (CHO) | | |
| Method | OECD 476 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Type of examination | in vitro gene mutation study in bacteria | | |
| Species | S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2 | | |
| Method | OECD 471 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Type of examination | In vitro Mammalian Chromosomal Aberration Test | | |
| Species | Chinese hamster lung (CHL) | | |
| Method | OECD 473 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Type of examination | In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus | | |
| Species | mouse | | |
| Method | EPA | | |

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| | |
|---------------------------|---|
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| Reproduction toxicity | | | |
|---------------------------|-------------------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Route of exposure | | oral | |
| Type of examination | | Toxicity study | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Carcinogenicity | |
|-------------------|--|
| No data available | |

| STOT - single exposure | |
|------------------------|--|
| No data available | |

| STOT - repeated exposure | | | |
|---------------------------|-------------------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Route of exposure | | oral | |
| Species | | rat | |
| Method | | OECD 422 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Route of exposure | | inhalational | |
| Species | | rat | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

| Aspiration hazard | |
|-------------------|--|
| No data available | |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|--------------------------|-------------------------|---------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LC50 | | 191 | mg/l |
| Duration of exposure | | 96 | h |
| Species | | Oncorhynchus mykiss | |
| Source | | ECHA | |

| Toxicity to fish (chronic) | |
|----------------------------|--|
| No data available | |

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|-------------------------|---------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| EC50 | | 168.7 | mg/l |
| Duration of exposure | | 48 | h |
| Species | | Daphnia magna | |
| Method | | EU C.2 | |
| Source | | ECHA | |

| Toxicity to Daphnia (chronic) | | | |
|-------------------------------|-------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| NOEC | | 28.1 | mg/l |
| Duration of exposure | | 21 | day(s) |

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| | |
|---------|---------------|
| Species | Daphnia magna |
| Method | OECD 211 |
| Source | ECHA |

| Toxicity to algae (acute) | | | |
|---------------------------|---------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| EC50 | > | 89 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Pseudokirchneriella subcapitata | | |
| Source | ECHA | | |

| Toxicity to algae (chronic) | | | |
|-----------------------------|--|--|--|
| No data available | | | |

| Bacteria toxicity | | | |
|-------------------|--|--|--|
| No data available | | | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|---------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Type | aerobic biodegradation | | |
| Value | | 51 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 F | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

| Other information |
|--|
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

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14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

| | | |
|-------------|------|-----|
| VOC content | 0.02 | % |
| VOC-value | 0.3 | g/l |

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H332 | Harmful if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |

Department issuing safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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