

Multi-Super-7-Spray Klostermann Chemie

Version number: GHS 2.1
Replaces version of: 26.03.2021 (GHS 1)

Revision: 25.11.2021

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

1.1 Product identifier

| | |
|---------------------------------|---|
| Trade name | Multi-Super-7-Spray Klostermann Chemie |
| Unique formula identifier (UFI) | 2710-80EM-200G-35J8 |
| Article number | 485 |

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

| | |
|--------------------------|---|
| Relevant identified uses | Tools Lubricant Industrial uses Professional uses Consumer uses |
|--------------------------|---|

1.3 Details of the supplier of the safety data sheet

Klostermann Chemie GmbH & Co.KG
Von-dem-Bussche-Münch-Straße 4
32339 Espelkamp
Germany

Telephone: +49 (0) 5772 6711
e-mail: info@klostermann-chemie.de
Website: www.klostermann-chemie.de

e-mail (competent person) info@klostermann-chemie.de (Tim Schürstedt)

1.4 Emergency telephone number

| Poison centre | | |
|--|------------------|--------------------|
| Name | Postal code/city | Telephone |
| Beratungsstelle bei Vergiftungen Giftdatenbank der Länder Rheinland-Pfalz und Hessen | 55131 Mainz | +49 (0) 6131-19240 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 3 | Aquatic Chronic 3 | H412 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word danger

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- Pictograms

GHS02, GHS07



- Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

- Hazardous ingredients for labelling

Reference substance 001

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures






Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-------------------------|--|-----------|---|------------|
| Butane | CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32- xxxx | 25 - < 50 | Flam. Gas 1A / H220 Press. Gas L / H280 | |
| Reference substance 001 | CAS No 64742-49-0 EC No 927-241-2 REACH Reg. No 01-2119471843-32- xxxx | 25 - < 50 | Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 | |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|--|---|-----------|--|---|
| Propane | CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21- xxxx | 10 – < 25 | Flam. Gas 1A / H220 Press. Gas L / H280 |   |
| Distillates (petroleum), hydrotreated light paraffinic | CAS No 64742-55-8 EC No 265-158-7 REACH Reg. No 01-2119487077-29- xxxx | 5 – < 10 | Acute Tox. 4 / H332 Asp. Tox. 1 / H304 |   |
| Distillates, heavy, C18-50 branched, cyclic and linear | CAS No 848301-69-9 EC No 482-220-0 REACH Reg. No 01-0000020163-82- xxxx | 5 – < 10 | Asp. Tox. 1 / H304 |  |

| Name of substance | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|--|-----------------------|-----------|--|---|
| Distillates (petroleum), hydrotreated light paraffinic | - | - | 11 mg _i /4h 2.18 mg _i /4h | inhalation: vapour inhalation: dust/mist |

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

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- Packaging compatibilities
Keep only in original container.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|----------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| DE | butane | 106-97-8 | AGW | 1,000 | 2,400 | 4,000 | 9,600 | | | | TRGS 900 |
| DE | n-butane | 106-97-8 | MAK | 1,000 | 2,400 | 4,000 | 9,600 | | | | DFG |
| DE | propane | 74-98-6 | AGW | 1,000 | 1,800 | 4,000 | 7,200 | | | | TRGS 900 |
| DE | propane | 74-98-6 | MAK | 1,000 | 1,800 | 4,000 | 7,200 | | | | DFG |

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Reference substance 001 | 64742-49-0 | DNEL | 871 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Reference substance 001 | 64742-49-0 | DNEL | 77 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|--|-------------|----------|-----------------|-------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Distillates, heavy, C18-50 branched, cyclic and linear | 848301-69-9 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)



Eye/face protection

Use protective eyewear to guard against splash of liquids.

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Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid, gaseous (spray aerosol) |
| Colour | colourless |
| Odour | characteristic |
| Melting point/freezing point | -187.6 °C at 1,013 hPa |
| Boiling point or initial boiling point and boiling range | not applicable (aerosol) |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | 5 vol% - 15 vol% |
| Flash point | not applicable (aerosol) |
| Auto-ignition temperature | >200 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | not applicable (aerosol) |
| Kinematic viscosity | not relevant |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|--------------------|
| Vapour pressure | 4,200 hPa at 20 °C |
|-----------------|--------------------|

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Density and/or relative density

| | |
|-------------------------|---|
| Density | 0.0112 g/ml |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

9.2 Other information

Information with regard to physical hazard classes

Aerosols

| | |
|--------------------------|------|
| - Components (flammable) | 85 % |
|--------------------------|------|

Other safety characteristics

| | |
|--------------------------------------|--|
| Temperature class (EU, acc. to ATEX) | T3 (maximum permissible surface temperature on the equipment: 200°C) |
|--------------------------------------|--|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

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| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|------------|-----------------------|--------------|
| Name of substance | CAS No | Exposure route | ATE |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | inhalation: vapour | 11 mg/l/4h |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | inhalation: dust/mist | 2.18 mg/l/4h |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

12.2 Persistence and degradability

| Degradability of components of the mixture | | | | | | |
|--|------------|---------------------------|------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
| Reference substance 001 | 64742-49-0 | oxygen depletion | 8 % | 3 d | | ECHA |
| Reference substance 001 | 64742-49-0 | carbon dioxide generation | 0 % | 3 d | | ECHA |

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| Degradability of components of the mixture | | | | | | |
|--|-------------|---------------------------|------------------|------|--------|--------|
| Name of sub-stance | CAS No | Process | Degradation rate | Time | Method | Source |
| Distillates, heavy, C18-50 branched, cyclic and linear | 848301-69-9 | carbon dioxide generation | 65 % | 28 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | | |
|--|-------------|-----|-----------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| Butane | 106-97-8 | | 1.09 (pH value: 7, 20 °C) | |
| Propane | 74-98-6 | | 2.8 (pH value: 7, 20 °C) | |
| Distillates, heavy, C18-50 branched, cyclic and linear | 848301-69-9 | ≤6 | >6.5 (pH value: 6.6, 40 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|-------------|---------|
| ADR/RID/ADN | UN 1950 |
| IMDG-Code | UN 1950 |
| ICAO-TI | UN 1950 |

14.2 UN proper shipping name

| | |
|-------------|----------|
| ADR/RID/ADN | AEROSOLS |
| IMDG-Code | AEROSOLS |

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| | |
|---|---|
| ICAO-TI | Aerosols, flammable |
| 14.3 Transport hazard class(es) | |
| ADR/RID/ADN | 2 (2.1) |
| IMDG-Code | 2.1 |
| ICAO-TI | 2.1 |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Maritime transport in bulk according to IMO instruments | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations


Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

| | |
|---|--------------------|
| Classification code | 5F |
| Danger label(s) | 2.1 |
|  | |
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|---|----------------------------------|
| Marine pollutant | - |
| Danger label(s) | 2.1 |
|  | |
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| EmS | F-D, S-U |
| Stowage category | - |

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

| | |
|---|------------|
| Danger label(s) | 2.1 |
|  | |
| Special provisions (SP) | A145, A167 |
| Excepted quantities (EQ) | E0 |

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Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 obviously hazardous to water
(water hazard class)

Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc. | Mass flow | Mass concentration | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5 | organic substances | | ≥ 25 wt% | 0.5 kg/h | 50 mg/m ³ | 3) |

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 2 B (aerosol dispensers and lighters)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 1.1 | Trade name: Multi-Super-7-Spray | Trade name: Multi-Super-7-Spray Klostermann Chemie | yes |
| 1.3 | Details of the supplier of the safety data sheet: Klostermann Chemie GmbH & Co.KG Von-dem-Bussche-Münch-Straße 4 32339 Espelkamp Germany Telephone: 05772 6711 e-mail: info@klostermann-chemie.de Website: www.klostermann-chemie.de | Details of the supplier of the safety data sheet: Klostermann Chemie GmbH & Co.KG Von-dem-Bussche-Münch-Straße 4 32339 Espelkamp Germany Telephone: +49 (0) 5772 6711 e-mail: info@klostermann-chemie.de Website: www.klostermann-chemie.de | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 8.1 | | Relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 9.1 | | Relative vapour density: information on this property is not available | yes |
| 9.1 | Particle characteristics: no data available | Particle characteristics: not relevant (aerosol) | yes |
| 12.2 | | Degradability of components of the mixture: change in the listing (table) | yes |
| 12.3 | | Bioaccumulative potential of components of the mixture: change in the listing (table) | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |

Abbreviations and acronyms

| | |
|---------------------|--|
| Abbr. | Descriptions of used abbreviations. |
| Acute Tox. | Acute toxicity. |
| ADN. | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR. | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road). |
| ADR/RID/ ADN. | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN). |
| AGW. | Workplace exposure limit. |
| Aquatic Chronic. | Hazardous to the aquatic environment - chronic hazard. |
| Asp. Tox. | Aspiration hazard. |
| ATE. | Acute Toxicity Estimate. |
| BCF. | Bioconcentration factor. |
| BOD. | Biochemical Oxygen Demand. |
| CAS. | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances). |
| Ceiling-C. | Ceiling value. |
| CLP. | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. |
| COD. | Chemical oxygen demand. |
| DFG. | Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim. |
| DGR. | Dangerous Goods Regulations (see IATA/DGR). |
| DNEL. | Derived No-Effect Level. |
| EC No. | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). |
| EINECS. | European Inventory of Existing Commercial Chemical Substances. |
| ELINCS. | European List of Notified Chemical Substances. |
| EmS. | Emergency Schedule. |
| Flam. Gas. | Flammable gas. |
| Flam. Liq. | Flammable liquid. |
| GHS. | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. |
| IATA. | International Air Transport Association. |
| IATA/DGR. | Dangerous Goods Regulations (DGR) for the air transport (IATA). |
| ICAO. | International Civil Aviation Organization. |
| ICAO-TI. | Technical instructions for the safe transport of dangerous goods by air. |
| IMDG. | International Maritime Dangerous Goods Code. |
| IMDG-Code. | International Maritime Dangerous Goods Code. |
| Index No. | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008. |
| LGK. | Lagerklasse (storage class according to TRGS 510, Germany). |
| Log KOW. | n-Octanol/water. |
| NLP. | No-Longer Polymer. |
| PBT. | Persistent, Bioaccumulative and Toxic. |
| PNEC. | Predicted No-Effect Concentration. |
| Ppm. | Parts per million. |
| Press. Gas. | Gas under pressure. |
| REACH. | Registration, Evaluation, Authorisation and Restriction of Chemicals. |
| RID. | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail). |
| STEL. | Short-term exposure limit. |
| STOT SE. | Specific target organ toxicity - single exposure. |
| TRGS. | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany). |
| TRGS 900. | Arbeitsplatzgrenzwerte (TRGS 900). |
| TWA. | Time-weighted average. |
| VPvB. | Very Persistent and very Bioaccumulative. |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Multi-Super-7-Spray Klostermann Chemie

Version number: GHS 2.1
Replaces version of: 26.03.2021 (GHS 1)

Revision: 25.11.2021

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code. | Text. |
|-------|---|
| H220. | Extremely flammable gas. |
| H222. | Extremely flammable aerosol. |
| H226. | Flammable liquid and vapour. |
| H229. | Pressurised container: May burst if heated. |
| H280. | Contains gas under pressure; may explode if heated. |
| H304. | May be fatal if swallowed and enters airways. |
| H332. | Harmful if inhaled. |
| H336. | May cause drowsiness or dizziness. |
| H412. | Harmful to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.