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Revision date / version: 09.09.2019 / 0007

Replacing version dated / version: 22.02.2019 / 0006

Valid from: 09.09.2019 PDF print date: 09.09.2019 Toko Base GripSpray

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

## **Toko Base GripSpray**

## 5508795 Nordic KlisterSpray Base green 70ml

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

Priming

Sector of use [SU]:

SU21 - Consumer uses: Private households (=general public = consumers)

Chemical product category [PC]:

PC15 - Non-metal-surface treatment products

Environmental Release Category [ERC]:

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### **Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

(GB)

Brav Germany GmbH, Junkersstr. 1, 82178 Puchheim, Germany Phone:+49 (0)89 849 369 0, Fax:+49 (0)89 849 369 13 info@brav-gemany.com, www.brav-germany.com

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www.facebook.com/tokoworldwide

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## 1.4 Emergency telephone number

Emergency information services / official advisory body:

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## Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (SWS)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

STOT SE 3 H336-May cause drowsiness or dizziness.



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Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

Aerosol 1 H222-Extremely flammable aerosol.

Aerosol 1 H229-Pressurised container: May burst if heated.

#### 2.2 Label elements

## Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

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

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. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

Without adequate ventilation, formation of explosive mixtures may be possible. Pentane

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## **SECTION 3: Composition/information on ingredients**

#### Aerosol

#### 3.1 Substance

n.a.

#### 3.2 Mixture

| Pentane   | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH)                                 | 01-2119459286-30-XXXX                                   |
| Index   | 601-006-00-1  |
| EINECS, ELINCS, NLP   | 203-692-4   |
| CAS   | 109-66-0  |
| content %   | 10-<25  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304                                       |
|   | STOT SE 3, H336   |
|   | Aquatic Chronic 2, H411                                 |
|   | Flam. Lig. 1, H224                                      |



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For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

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

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### **Eve contact**

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Coordination disorders

Mental confusion

Other dangerous properties cannot be ruled out.

### 4.3 Indication of any immediate medical attention and special treatment needed

n.c.

#### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Extinction powder

Water jet spray

Alcohol resistant foam

## Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.



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Protective respirator with independent air supply.

According to size of fire Full protection, if necessary. Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

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.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

## 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with flammable or self-igniting materials.

Observe special storage conditions.

Observe special regulations for aerosols!

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well-ventilated place.

Store cool.

## 7.3 Specific end use(s)

No information available at present.

#### **SECTION 8: Exposure controls/personal protection**



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## 8.1 Control parameters

| Chemical Name                   | Pentane             |   |                           |           | Content %:10-<br><25 |
|---------------------------------|---------------------|---|---------------------------|-----------|----------------------|
| WEL-TWA: 1800 mg/m3 (600 p      | ) (MEL)   ME        | :L-STEL:  |                           |           | <20                  |
| 3000 mg/m3 (1000 ppm) (EU)      | pill) (VVEL), VVE   | :L-31EL   |                           |           |                      |
| Monitoring procedures:          | - Comp              | ur - KITA-113 SB(C) (549 3                                  | 868)                      |           |                      |
| Worldoning procedures.          |                     | er - Pentane 100/a (67 24 )                                 |                           |           |                      |
|                                 |                     | D) (Loesungsmittelgemisch                                   |                           | E) (Solve | nt mivtures 1) -     |
|                                 | - 1998,             |   | ic wear. 141. 1), bi & (i | L) (OOIVC | Tit Tillxtures 1)    |
| BMGV:                           | 1000,               | 2002  | Other information: -      |           |                      |
| Oh                              | Distant             | 1   |                           |           | 0110/-               |
| © Chemical Name                 | Butane              | T CTEL: 750 mm (4040  |                           |           | Content %:           |
| WEL-TWA: 600 ppm (1450 mg/      |                     | :L-STEL: 750 ppm (1810<br>ur - KITA-221 SA (549 459         |                           |           |                      |
| BMGV:                           | - Compo             | ui - KITA-221 3A (349 439                                   | )<br>Other information: - |           |                      |
|                                 |                     |   | Other information         | · <b></b> |                      |
| Chemical Name                   | Propane             |   |                           |           | Content %:           |
| WEL-TWA: 1000 ppm (ACGIH)       |                     | L-STEL:   |                           |           |                      |
| Monitoring procedures:          | - Comp              | ur - KITA-125 SA (549 954                                   |                           |           |                      |
| BMGV:                           |                     |   | Other information: -      |           |                      |
| Chemical Name                   | Isobutane           |   |                           |           | Content %:           |
| WEL-TWA: 1000 ppm (EX) (AC      |                     | L-STEL:   |                           |           |                      |
| Monitoring procedures:          |                     | ur - KITA-113 SB(C) (549 3                                  | 368)                      |           |                      |
| BMGV:                           |                     |   | Other information: -      |           |                      |
| Chemical Name                   | Dimethoxymethane    |   |                           |           | Content %:           |
| WEL-TWA: 1000 ppm (3160 m       | n/m3) WF            | EL-STEL: 1250 ppm (3950                                     | ) mg/m3)                  |           | Contone 70.          |
| Monitoring procedures:          | <u></u>             | 0122. 1200 pp (000)   | 5 mg/mo/                  |           |                      |
| BMGV:                           |                     |   | Other information: -      |           |                      |
|                                 | O'll maint main and |   |                           |           | 0                    |
| Chemical Name     Chemical Name | Oil mist, mineral   | T. OTEL:  |                           |           | Content %:           |
| WEL-TWA: 5 mg/m3 (Mineral o     | ii, excluding WE    | EL-STEL:  |                           |           |                      |
| metal working fluids, ACGIH)    |                     | Oil 40/o D (67 20 274)                                      |                           |           |                      |
| Monitoring procedures:          | - Draeg             | er - Oil 10/a-P (67 28 371)<br>er - Oil Mist 1/a (67 33 031 | ١                         |           |                      |
| BMGV:                           | - Draeg             | ei - Oii iviist 1/a (b/ 33 031                              | A.1 1.4 .1                |           |                      |
| DIVIG V                         |                     |   | Other information: -      |           |                      |

| Pentane Area of application | Exposure route /       | Effect on health    | Descripto | Value | Unit     | Note  |
|-----------------------------|------------------------|---------------------|-----------|-------|----------|-------|
| Alca of application         | Environmental          | Lifeot of fleatiff  | r         | Value | J.III    | 14016 |
|                             | compartment            |                     |           |       |          |       |
|                             |                        |                     | PNEC      | 0.00  |          |       |
|                             | Environment - water    |                     |           | 0,23  | mg/l     |       |
|                             | Environment - sediment |                     | PNEC      | 1,2   | mg/kg    |       |
|                             | Environment - soil     |                     | PNEC      | 0,55  | mg/kg    |       |
|                             | Environment - sewage   |                     | DNEL      | 3,6   | mg/l     |       |
|                             | treatment plant        |                     |           |       |          |       |
|                             | Environment - periodic |                     | PNEC      | 0,88  | mg/l     |       |
|                             | release                |                     |           |       |          |       |
| Consumer                    | Human - dermal         | Long term, systemic | DNEL      | 214   | mg/kg    |       |
|                             |                        | effects             |           |       | bw/day   |       |
| Consumer                    | Human - inhalation     | Long term, systemic | DNEL      | 643   | mg/m3    |       |
| Consumor                    | Traman imaaton         | effects             | DIVEE     | 0.10  | ing/iiio |       |
| Consumer                    | Human - oral           | Long term, systemic | DNEL      | 214   | mg/kg    |       |
|                             |                        | effects             |           |       | bw/day   |       |
| Workers / employees         | Human - dermal         | Long term, systemic | DNEL      | 432   | mg/kg    |       |
|                             | Traman domai           | effects             | J.,,      |       | bw/day   |       |
| Markers / employess         | Lluman inhalation      |                     | DNICI     | 2000  | +        |       |
| Workers / employees         | Human - inhalation     | Long term, systemic | DNEL      | 3000  | mg/m3    |       |
|                             |                        | effects             |           |       |          |       |



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| Area of application | Exposure route / Environmental compartment | Effect on health            | Descripto<br>r | Value  | Unit                        | Note |
|---------------------|--|-----------------------------|----------------|--------|-----------------------------|------|
|                     | Environment - water                        |                             | PNEC           | 14,577 | mg/l                        |      |
|                     | Environment - sediment, marine             |                             | PNEC           | 1,4577 | mg/l                        |      |
|                     | Environment - sediment, freshwater         |                             | PNEC           | 13,135 | mg/kg dry<br>weight         |      |
|                     | Environment - sediment, marine             |                             | PNEC           | 1,3135 | mg/kg dry<br>weight         |      |
|                     | Environment - soil                         |                             | PNEC           | 4,6538 | mg/kg dry<br>weight         |      |
|                     | Environment - sewage treatment plant       |                             | PNEC           | 10000  | mg/l                        |      |
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL           | 9,6    | mg/kg<br>body<br>weight/day |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL           | 39     | mg/l                        |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL           | 5,7    | mg/kg<br>body<br>weight/day |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL           | 22     | mg/kg<br>body<br>weight/day |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL           | 132    | mg/m3                       |      |

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period)
  EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | 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 Appropriate engineering 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.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

With danger of contact with eyes.



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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Normally not necessary.

In case of direct contact with the ingredients:

If applicable

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid.

Colour: According to specification

Odour: Characteristic Odour threshold: Not determined pH-value: Not determined

Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Not determined Flash point:

Evaporation rate: Not determined Flammability (solid, gas): Not determined

1,5 Vol-% (Propellant gas ) Lower explosive limit: Upper explosive limit: 10,9 Vol-% (Propellant gas)

Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,7 - 0,8 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies): Not determined



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Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Not determined

Explosive properties: Product is not explosive. When using: development of explosive

vapour/air mixture possible.

Oxidising properties: No

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Surface tension:

Solvents content:

Not determined
Not determined
Not determined
Not determined

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product has not been tested.

#### 10.2 Chemical stability

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes  |
|----------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route:   | -        |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal        |          |       |      |          |             | n.d.a. |
| route:                           |          |       |      |          |             |        |
| Acute toxicity, by inhalation:   |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:       |          |       |      |          |             | n.d.a. |
| Serious eye                      |          |       |      |          |             | n.d.a. |
| damage/irritation:               |          |       |      |          |             |        |
| Respiratory or skin              |          |       |      |          |             | n.d.a. |
| sensitisation:                   |          |       |      |          |             |        |
| Germ cell mutagenicity:          |          |       |      |          |             | n.d.a. |
| Carcinogenicity:                 |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:           |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - |          |       |      |          |             | n.d.a. |
| single exposure (STOT-SE):       |          |       |      |          |             |        |
| Specific target organ toxicity - |          |       |      |          |             | n.d.a. |
| repeated exposure (STOT-         |          |       |      |          |             |        |
| RE):                             |          |       |      |          |             |        |
| Aspiration hazard:               |          |       |      |          |             | n.d.a. |
| Symptoms:                        |          |       |      |          |             | n.d.a. |



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| Other information: |  |  | Classification |
|--------------------|--|--|----------------|
|                    |  |  | according to   |
|                    |  |  | calculation    |
|                    |  |  | procedure.     |

| Pentane                          |          |       | 11.14      | 10       | T =                    | N. A.           |
|----------------------------------|----------|-------|------------|----------|------------------------|-----------------|
| Toxicity / effect                | Endpoint | Value | Unit       | Organism | Test method            | Notes           |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg      | Rat      | OECD 423 (Acute        |                 |
|                                  |          |       |            |          | Oral Toxicity - Acute  |                 |
|                                  |          |       |            |          | Toxic Class Method)    |                 |
| Acute toxicity, by inhalation:   | LC50     | >5    | mg/l/4h    | Rat      | OECD 403 (Acute        | Aerosol         |
| Acute toxicity, by inflatation.  | LC30     | >0    | 1119/1/411 | Rai      |                        | Aerosor         |
|                                  |          |       |            |          | Inhalation Toxicity)   |                 |
| Acute toxicity, by inhalation:   | LC50     | >25,3 | mg/l/4h    | Rat      | OECD 403 (Acute        | Vapours         |
|                                  |          |       |            |          | Inhalation Toxicity)   |                 |
| Skin corrosion/irritation:       |          |       |            |          | OECD 404 (Acute        | Not irritant,   |
| oniii oonoolon,iintation.        |          |       |            |          | Dermal                 | Repeated        |
|                                  |          |       |            |          |                        |                 |
|                                  |          |       |            |          | Irritation/Corrosion)  | exposure may    |
|                                  |          |       |            |          |                        | cause skin      |
|                                  |          |       |            |          |                        | dryness or      |
|                                  |          |       |            |          |                        | cracking.       |
| Serious eye                      |          |       |            |          | OECD 405 (Acute        | Mild irritant   |
|                                  |          |       |            |          |                        | IVIIIG IITIGITE |
| damage/irritation:               |          |       |            |          | Eye                    |                 |
|                                  |          |       |            |          | Irritation/Corrosion)  |                 |
| Respiratory or skin              |          |       |            |          | OECD 406 (Skin         | No (inhalation  |
| sensitisation:                   |          |       |            |          | Sensitisation)         | and skin        |
|                                  |          |       |            |          |                        | contact)        |
| Corres call results maniaits is  |          |       |            |          | OFCD 474 (Dectorial    |                 |
| Germ cell mutagenicity:          |          |       |            |          | OECD 471 (Bacterial    | Negative        |
|                                  |          |       |            |          | Reverse Mutation       |                 |
|                                  |          |       |            |          | Test)                  |                 |
| Carcinogenicity:                 |          |       |            |          | ,                      | Negative        |
| Reproductive toxicity:           |          |       |            |          | OECD 416 (Two-         | Negative,       |
| reproductive toxicity.           |          |       |            |          | generation             |                 |
|                                  |          |       |            |          |                        | Analogous       |
|                                  |          |       |            |          | Reproduction Toxicity  | conclusion      |
|                                  |          |       |            |          | Study)                 |                 |
| Specific target organ toxicity - |          |       |            |          |                        | May cause       |
| single exposure (STOT-SE):       |          |       |            |          |                        | drowsiness or   |
| g                                |          |       |            |          |                        | dizziness.      |
| Specific target organ toxicity - |          |       |            |          | OECD 413               | Negative        |
|                                  |          |       |            |          |                        | ivegative       |
| repeated exposure (STOT-         |          |       |            |          | (Subchronic Inhalation |                 |
| RE):                             |          |       |            |          | Toxicity - 90-Day      |                 |
|                                  |          |       |            |          | Study)                 |                 |
| Aspiration hazard:               |          |       |            |          | -                      | Yes             |
| Symptoms:                        |          |       |            |          |                        | drying of the   |
| Cymptome.                        |          |       |            |          |                        | skin.,          |
|                                  |          |       |            |          |                        |                 |
|                                  |          |       |            |          |                        | respiratory     |
|                                  |          |       |            |          |                        | distress,       |
|                                  |          |       |            |          |                        | coughing,       |
|                                  |          |       |            |          |                        | fever,          |
|                                  |          |       |            |          |                        |                 |
|                                  |          |       |            |          |                        | drowsiness,     |
|                                  |          |       |            |          |                        | dizziness,      |
|                                  |          |       |            |          |                        | nausea,         |
|                                  |          |       |            |          |                        | headaches,      |
|                                  |          |       |            |          |                        | unconsciousne   |
|                                  |          |       |            |          |                        |                 |
|                                  |          |       |            |          |                        | s, burning of   |
|                                  |          |       |            |          |                        | the membrane    |
|                                  |          |       |            |          |                        | of the nose an  |
|                                  |          |       |            |          |                        | throat          |
| Specific target organ toxicity - |          |       |            | 1        |                        | Not irritant    |
|                                  |          |       |            |          |                        |                 |
| single exposure (STOT-SE),       |          |       |            |          |                        | (respiratory    |
| inhalative:                      | I        | I .   |            | 1        |                        | tract).         |

## Butane



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| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method         | Notes           |
|--------------------------------|----------|-------|---------|----------|---------------------|-----------------|
| Acute toxicity, by inhalation: | LC50     | 658   | mg/l/4h | Rat      |                     |                 |
| Germ cell mutagenicity:        |          |       |         |          | OECD 471 (Bacterial | Negative        |
| c ,                            |          |       |         |          | Reverse Mutation    |                 |
|                                |          |       |         |          | Test)               |                 |
| Aspiration hazard:             |          |       |         |          |                     | No              |
| Symptoms:                      |          |       |         |          |                     | ataxia,         |
|                                |          |       |         |          |                     | breathing       |
|                                |          |       |         |          |                     | difficulties,   |
|                                |          |       |         |          |                     | drowsiness,     |
|                                |          |       |         |          |                     | unconsciousnes  |
|                                |          |       |         |          |                     | s, frostbite,   |
|                                |          |       |         |          |                     | disturbed heart |
|                                |          |       |         |          |                     | rhythm,         |
|                                |          |       |         |          |                     | headaches,      |
|                                |          |       |         |          |                     | cramps,         |
|                                |          |       |         |          |                     | intoxication,   |
|                                |          |       |         |          |                     | dizziness,      |
|                                |          |       |         |          |                     | nausea and      |
|                                |          |       |         |          |                     | vomiting.       |

| Propane                        |          |        |         |          |                      |                |
|--------------------------------|----------|--------|---------|----------|----------------------|----------------|
| Toxicity / effect              | Endpoint | Value  | Unit    | Organism | Test method          | Notes          |
| Acute toxicity, by inhalation: | LC50     | 658    | mg/l/4h | Rat      |                      |                |
| Skin corrosion/irritation:     |          |        |         |          |                      | Not irritant   |
| Serious eye                    |          |        |         |          |                      | Not irritant   |
| damage/irritation:             |          |        |         |          |                      |                |
| Germ cell mutagenicity:        |          |        |         |          | OECD 471 (Bacterial  | Negative       |
|                                |          |        |         |          | Reverse Mutation     |                |
|                                |          |        |         |          | Test)                |                |
| Reproductive toxicity          | NOAEC    | 21,641 | mg/l    |          | OECD 422             |                |
| (Developmental toxicity):      |          |        |         |          | (Combined Repeated   |                |
|                                |          |        |         |          | Dose Tox. Study with |                |
|                                |          |        |         |          | the                  |                |
|                                |          |        |         |          | Reproduction/Develop |                |
|                                |          |        |         |          | m. Tox. Screening    |                |
|                                |          |        |         |          | Test)                |                |
| Aspiration hazard:             |          |        |         |          |                      | No             |
| Symptoms:                      |          |        |         |          |                      | breathing      |
|                                |          |        |         |          |                      | difficulties,  |
|                                |          |        |         |          |                      | unconsciousnes |
|                                |          |        |         |          |                      | s, frostbite,  |
|                                |          |        |         |          |                      | headaches,     |
|                                |          |        |         |          |                      | cramps,        |
|                                |          |        |         |          |                      | mucous         |
|                                |          |        |         |          |                      | membrane       |
|                                |          |        |         |          |                      | irritation,    |
|                                |          |        |         |          |                      | dizziness,     |
|                                |          |        |         |          |                      | nausea and     |
|                                |          |        |         |          |                      | vomiting.      |

| Isobutane                      | T        | T     |         | T        |                     | T            |
|--------------------------------|----------|-------|---------|----------|---------------------|--------------|
| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method         | Notes        |
| Acute toxicity, by inhalation: | LC50     | 658   | mg/l/4h | Rat      |                     |              |
| Serious eye                    |          |       |         | Rabbit   |                     | Not irritant |
| damage/irritation:             |          |       |         |          |                     |              |
| Germ cell mutagenicity:        |          |       |         |          | OECD 471 (Bacterial | Negative     |
|                                |          |       |         |          | Reverse Mutation    |              |
|                                |          |       |         |          | Test)               |              |
| Aspiration hazard:             |          |       |         |          |                     | No           |



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| Symptoms: |  | unconsciousnes<br>s, frostbite,<br>headaches, |
|-----------|--|---|
|           |  | cramps,<br>dizziness,                         |
|           |  | nausea and vomiting.                          |

| Dimethoxymethane Toxicity / effect | Endpoint | Value | Unit    | Organism               | Test method                          | Notes  |
|------------------------------------|----------|-------|---------|------------------------|--------------------------------------|--|
| Acute toxicity, by oral route:     | LD50     | 6423  | mg/kg   | Rat                    | 1000                                 | 110100   |
| Acute toxicity, by dermal route:   | LD50     | >5000 | mg/kg   | Rabbit                 |                                      |  |
| Acute toxicity, by inhalation:     | LC50     | 57    | mg/l    | Mouse                  | OECD 403 (Acute Inhalation Toxicity) |  |
| Acute toxicity, by inhalation:     | LOAEL    | 1000  | mg/l/6h | Rat                    |                                      | Vapours  |
| Acute toxicity, by inhalation:     | NOAEL    | 2000  | mg/l/6h | Rat                    |                                      | Vapours  |
| Skin corrosion/irritation:         |          |       |         |                        |                                      | Not irritant   |
| Serious eye damage/irritation:     |          |       |         |                        |                                      | Not irritant   |
| Respiratory or skin sensitisation: |          |       |         |                        |                                      | Not sensitizising  |
| Germ cell mutagenicity:            |          |       |         | Salmonella typhimurium | (Ames-Test)                          | Negative   |
| Carcinogenicity:                   |          |       |         | 71                     |                                      | Negative   |
| Reproductive toxicity:             |          |       |         |                        |                                      | Negative   |
| Aspiration hazard:                 |          |       |         |                        |                                      | No   |
| Symptoms:                          |          |       |         |                        |                                      | acidosis, respiratory distress, drowsiness, unconsciousnes s, diarrhoea, coughing, headaches, drowsiness, mucous membrane irritation, nausea and |

## **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

| Toko Base GripSpray      |          |      |       |      |          |             |        |
|--------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity / effect        | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
| 12.1. Toxicity to fish:  |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to        |          |      |       |      |          |             | n.d.a. |
| daphnia:                 |          |      |       |      |          |             |        |
| 12.1. Toxicity to algae: |          |      |       |      |          |             | n.d.a. |
| 12.2. Persistence and    |          |      |       |      |          |             | n.d.a. |
| degradability:           |          |      |       |      |          |             |        |
| 12.3. Bioaccumulative    |          |      |       |      |          |             | n.d.a. |
| potential:               |          |      |       |      |          |             |        |
| 12.4. Mobility in soil:  |          |      |       |      |          |             | n.d.a. |
| 12.5. Results of PBT     |          |      |       |      |          |             | n.d.a. |
| and vPvB assessment      |          |      |       |      |          |             |        |
| 12.6. Other adverse      |          |      |       |      |          |             | n.d.a. |
| effects:                 |          |      |       |      |          |             |        |



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| Pentane<br>Toxicity / effect             | Endpoint  | Time | Value | Unit | Organism                            | Test method | Notes   |
|--|-----------|------|-------|------|-------------------------------------|-------------|---|
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 4,26  | mg/l | Oncorhynchus mykiss                 |             |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 2,7   | mg/l | Daphnia magna                       |             |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 10,7  | mg/l | Pseudokirchnerie<br>Ila subcapitata |             |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 7,51  | mg/l | Pseudokirchnerie<br>Ila subcapitata |             |   |
| 12.2. Persistence and degradability:     |           | 28d  | 87    | %    |                                     |             |   |
| 12.2. Persistence and degradability:     |           |      |       |      |                                     |             | Readily biodegradable, Photochemical decomposition in the atmosphere. |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 3,39  |      |                                     |             |   |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                                     |             | No PBT<br>substance, No<br>vPvB substance                             |

| Butane                                   |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 24,11 | mg/l |          | QSAR        |   |
| 12.1. Toxicity to daphnia:               | LC50     | 48h  | 14,22 | mg/l |          | QSAR        |   |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,98  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT<br>substance, No<br>vPvB<br>substance                                    |

| Propane                                  |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,28  |      | -        |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT<br>substance, No<br>vPvB substance                                       |

| Isobutane             |          |      |       |      |          |             |                  |
|-----------------------|----------|------|-------|------|----------|-------------|------------------|
| Toxicity / effect     | Endpoint | Time | Value | Unit | Organism | Test method | Notes            |
| 12.3. Bioaccumulative |          |      |       |      |          |             | A notable        |
| potential:            |          |      |       |      |          |             | biological       |
|                       |          |      |       |      |          |             | accumulation     |
|                       |          |      |       |      |          |             | potential is not |
|                       |          |      |       |      |          |             | to be expected   |
|                       |          |      |       |      |          |             | (LogPow 1-3).    |



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| 12.1. Toxicity to fish:  | LC50 | 96h | 27,98 | mg/l |                |
|--------------------------|------|-----|-------|------|----------------|
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71  | mg/l |                |
| 12.2. Persistence and    |      |     |       |      | Readily        |
| degradability:           |      |     |       |      | biodegradable  |
| 12.5. Results of PBT     |      |     |       |      | No PBT         |
| and vPvB assessment      |      |     |       |      | substance, No  |
|                          |      |     |       |      | vPvB substance |

| Dimethoxymethane                         |          |      |       |      |                         |             |   |
|--|----------|------|-------|------|-------------------------|-------------|---|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism                | Test method | Notes                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      | _                       |             | No PBT<br>substance, No<br>vPvB substance |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 6990  | mg/l | Pimephales promelas     |             |   |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | >500  | mg/l | Daphnia magna           |             |   |
| 12.1. Toxicity to algae:                 | EC10     | 96h  | >500  | mg/l | Scenedesmus subspicatus |             |   |
| 12.2. Persistence and degradability:     |          |      | >80   | %    |                         |             | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 0     |      |                         |             |   |
| Toxicity to bacteria:                    | EC10     | 17h  | 3000  | mg/l | Pseudomonas putida      |             |   |
| Water solubility:                        |          |      | 32,3  | %    |                         |             |   |

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

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. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

## For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

## **SECTION 14: Transport information**

## **General statements**

14.1. UN number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: - Classification code: 5F





(GB)

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LQ: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

**AEROSOLS** 

14.3. Transport hazard class(es):
2.1
14.4. Packing group:

EmS: F-D, S-U

Marine Pollutant:

n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1

14.4. Packing group:

14.5. Environmental hazards: Not applicable



Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be

considered according to storage, handling etc.):

| _ | considered decorating to storage, nariding etc.). |                  |                                  |                                  |  |  |  |
|---|---|------------------|----------------------------------|----------------------------------|--|--|--|
|   | Hazard categories                                 | Notes to Annex I | Qualifying quantity (tonnes) of  | Qualifying quantity (tonnes) of  |  |  |  |
|   |   |                  | dangerous substances as          | dangerous substances as          |  |  |  |
|   |   |                  | referred to in Article 3(10) for | referred to in Article 3(10) for |  |  |  |
|   |   |                  | the application of - Lower-tier  | the application of - Upper-tier  |  |  |  |
|   |   |                  | requirements                     | requirements                     |  |  |  |
|   | P3a   | 11.1             | 150 (netto)                      | 500 (netto)                      |  |  |  |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| ous substances  | Notes to Annex I                                      | Qualifying quantity                             | Qualifying quantity   |
|-----------------|---|---|---|
|                 |   | (tonnes) for the                                | (tonnes) for the  |
|                 |   | application of - Lower-                         | application of - Upper-   |
|                 |   | tier requirements                               | tier requirements   |
| ed flammable    | 19  | 50  | 200   |
| Category 1 or 2 |   |   |   |
| ng LPG) and     |   |   |   |
| gas             |   |   |   |
|                 | ed flammable<br>Category 1 or 2<br>ng LPG) and<br>gas | ed flammable 19 Category 1 or 2 ng LPG) and gas | ted flammable Category 1 or 2 ng LPG) and gas  (tonnes) for the application of - Lower- tier requirements  50 |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):



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#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| STOT SE 3, H336   | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412   | Classification according to calculation procedure. |
| Aerosol 1, H222   | Classification based on test data.                 |
| Aerosol 1, H229   | Classification based on test data.                 |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H224 Extremely flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Asp. Tox. — Aspiration hazard

Flam. Liq. — Flammable liquid

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency



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EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLIDInternational Uniform Chemical Information Database** 

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

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. No responsibility.

These statements were made by:

# Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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