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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

(GB)

Dry - Film Lubricant S419 400 ml Art.: 6530 5650, Art.: 6534 5650

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

Lubricant and greasing spray Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (TFC)

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 | | | | | |
| Skin Irrit. | 2 | H315-Causes skin irritation. | | | | | |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. | | | | | |
| 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)



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H315-Causes skin irritation. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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. P280-Wear protective gloves. P332+P313-If skin irritation occurs: Get medical advice / attention.

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

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | |
|--|-------------------------|
| Registration number (REACH) | 01-2119475514-35-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 921-024-6 |
| CAS | |
| content % | 15-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 |
| | Skin Irrit. 2, H315 |
| | STOT SE 3, H336 |
| | Asp. Tox. 1, H304 |
| | Aquatic Chronic 2, H411 |

Aerosol

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



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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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult 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. Consult doctor immediately. Danger of aspiration.

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.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

CO2 Extinction powder Sand

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

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. 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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

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



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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.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces. Do not use the product in enclosed spaces.

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. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Observe special regulations for aerosols! Observe special storage conditions. Observe special storage conditions. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1000 mg/m3

| Chemical Name | Hydrocarbons, | C6-C7, n-alkanes, is | soalkanes, cyclics, | <5% n-hexane | |
|-----------------------------------|--------------------------|----------------------|---------------------|----------------------|-------------------------|
| WEL-TWA: 1000 mg/r | n3 | WEL-STEL: | | | |
| Monitoring procedures: | - | Compur - KITA-1 | 87 S (551 174) | | |
| BMGV: | | • | | Other information: (| OEL acc. to RCP-method, |
| | | | | paragraphs 84-87, El | H40) |
| Chemical Name | Butane | | | · • · | |
| WEL-TWA: 600 ppm (| | | 750 ppm (1810 mg | (m2) | |
| · · · · · · · · · · · · · · · · · | 1450 mg/m3) | | | /113) | |
| Monitoring procedures: | - | Compur - KITA-2 | | | |
| | - | OSHA PV2010 (n | i-Butane) - 1993 | | |
| BMGV: | | | | Other information: - | |
| | | | | | |
| Chemical Name | Isobutane | r | | | |
| WEL-TWA: 1000 ppm | (EX) (ACGIH) | WEL-STEL: | | | |
| Monitoring procedures: | - | Compur - KITA-1 | 13 SB(C) (549 368 |) | |
| BMGV: | | | | Other information: - | |
| Chemical Name | Isopentane | | | | |
| | n3 (600 ppm) (WEL), 3000 | WEL-STEL: | | | |
| mg/m3 (1000 ppm) (EU | | | | | |
| Monitoring procedures: | / | | | | |
| <u> </u> | | | | Other information: | |
| BMGV: | | | | Other information: - | |
| Chemical Name | Propane | | | | |
| | | | | | |



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| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: | |
|---------------------------|--|---------|
| Monitoring procedures: | - Compur - KITA-125 SA (549 954) | |
| | OSHA PV2077 (Propane) - 1990 | |
| BMGV: | Other inform | nation: |

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|--------------------------------|------------|-------|------------|------|
| Consumer | Human - oral | Long term, systemic effects | DNEL | 699 | mg/kg bw/d | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 699 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 608 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2035 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 733 | mg/kg bw/d | |

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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | 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.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

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. EN 14042.

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

Skin protection - Hand protection: Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,3 Permeation time (penetration time) in minutes: <= 480 Protective hand cream recommended.

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.



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

Respiratory protection: If OES or MEL is exceeded. Filter A 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

(GB)

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: | White |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | n.a. |
| Flammability: | Does not apply to aerosols. |
| Lower explosion limit: | 0,6 Vol-% |
| Upper explosion limit: | 10,9 Vol-% |
| Flash point: | -60 °C |
| Auto-ignition temperature: | 365 °C |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | Mixture is non-soluble (in water). |
| Kinematic viscosity: | Does not apply to aerosols. |
| Solubility: | Insoluble |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | 4000 hPa (20°C) |
| Density and/or relative density: | 0,57 g/ml (20°C) |
| Relative vapour density: | Does not apply to aerosols. |
| Particle characteristics: | Does not apply to aerosols. |
| 9.2 Other information | |
| Explosives: | Product is not explosive. When using: development of explosive |
| | vapour/air mixture possible. |
| Oxidising liquids: | No |
| Evaporation rate: | n.a. |
| Bulk density: | n.a. |
| Solvents content: | 99,8 % |
| | |

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**



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Hazardous reactions will not occur during storage and handling under normal conditions. **10.4 Conditions to avoid** Heating, open flame, ignition sources Pressure increase will result in danger of bursting. **10.5 Incompatible materials** Oxidizing agents **10.6 Hazardous decomposition products** No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification). Film Lubricont S410

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | - | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| 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. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|---------|------------|--|-------------------|
| Acute toxicity, by oral route: | LD50 | >5840 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2920 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 25,2 | mg/l/4h | Rat | | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | | | Slightly irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Specific target organ toxicity - | | | | | | May cause |
| single exposure (STOT-SE): | | | | | | drowsiness or |
| | | | | | | dizziness. |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | may cause |
| | | | | | | headaches and |
| | | | | | | vertigo. |

| Butane | | | | | | |
|--------------------------------|----------|-------|---------|-------------|------------------------|----------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |



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| Germ cell mutagenicity: | | | | Human being | OECD 473 (In Vitro | Negative |
|----------------------------------|-------|--------|------|-------------|------------------------|-------------------|
| | | | | - | Mammalian | - |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian | Negative |
| | | | | | Erythrocyte | • |
| | | | | | Micronucleus Test) | |
| Aspiration hazard: | | | | | | No |
| Specific target organ toxicity - | NOAEC | 21,394 | mg/l | Rat | OECD 422 (Combined | |
| repeated exposure (STOT-RE), | | | _ | | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Symptoms: | | | | | | ataxia, breathing |
| | | | | | | difficulties, |
| | | | | | | drowsiness, |
| | | | | | | unconsciousness |
| | | | | | | , frostbite, |
| | | | | | | disturbed heart |
| | | | | | | rhythm, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | intoxication, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |

| Isobutane Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|--------|---------|-------------|------------------------|----------------|
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | rest method | Notes |
| | | | | | | <u> </u> |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| 0, | | | | typhimurium | Reverse Mutation Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconsciousnes |
| | | | | | | , frostbite, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |
| Specific target organ toxicity - | NOAEL | 21,394 | mg/l | Rat | OECD 422 (Combined | |
| repeated exposure (STOT-RE), | | | | | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |

| Isopentane | | | | | | |
|---------------------------------------|----------|-------|---------|-------------|---|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 1280 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Human being | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Aspiration hazard: | | | | | | Yes |



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| | | | |
|-----------|------|-------|---------------|
| Symptoms: | | dro | wsiness, |
| | | unc | consciousness |
| | | , di | arrhoea, |
| | | anr | noyance, |
| | | hea | adaches, |
| | | cra | mps, |
| | | circ | ulatory |
| | | | orders, |
| | | dro | wsiness, |
| | | mu | cous |
| | | me | mbrane |
| | | irrit | ation, |
| | | | ziness, |
| | | | usea and |
| | | vor | niting. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|---------|-------------|--|--|
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male, |
| | | | | | | Analogous |
| | | | | | | conclusion |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| 0, 1 | | | | typhimurium | Reverse Mutation Test) | Ū |
| Reproductive toxicity | NOAEC | 21,641 | mg/l | | OECD 422 (Combined | |
| (Developmental toxicity): | | | - | | Repeated Dose Tox. | |
| | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | NOAEL | 7 214 | mall | Rat | OECD 422 (Combined | breathing difficulties, unconsciousnes , frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | | 7,214 | mg/l | | Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL | 21,641 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |

11.2. Information on other hazards

| Dry - Film Lubricant S419 | | | | | | | | | |
|---|----------|-------|------|----------|-------------|-----------------------------|--|--|--|
| 400 ml Art.: 6530 5650, Art.: 6534 5650 | | | | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | | |
| Endocrine disrupting properties: | | | | | | Does not apply to mixtures. | | | |



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| | Dry - Film Lubricant S419 |
| | 400 ml Art.: 6530 5650, Art.: 6534 5650 |

SECTION 12: Ecological information

| Dry - Film Lubricant S41 | | | | | | | |
|----------------------------|----------|------|-------|------|----------|-------------|--------------------|
| 400 ml Art.: 6530 5650, A | | | | - | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 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: | | | | | | | Product is |
| | | | | | | | slightly volatile. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment | | | | | | | |
| 12.6. Endocrine | | | | | | | Does not apply |
| disrupting properties: | | | | | | | to mixtures. |
| 12.7. Other adverse | | | | | | | No information |
| effects: | | | | | | | available on |
| | | | | | | | other adverse |
| | | | | | | | effects on the |
| | | | | | | | environment. |
| Other information: | | | | | | | According to the |
| | | | | | | | recipe, contains |
| | | | | | | | no AOX. |
| Other information: | | | | | | | DOC-elimination |
| | | | | | | | degree(complex |
| | | | | | | | ng organic |
| | | | | | | | substance)>= |
| | | | | | | | 80%/28d: n.a. |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|-------|------|-------------------------------------|--|---|
| 12.7. Other adverse effects: | · | | | | | | Product floats on the water surface. |
| 12.1. Toxicity to fish: | LC50 | 96h | 11,4 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | Goldforelle (Oncorhynchus aguabonita) |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | 2,045 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 1 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 30 | mg/l | Pseudokirchneriell a subcapitata | | |
| 12.2. Persistence and degradability: | | 28d | 100 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |



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œ

| 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). |
| 12.4. Mobility in soil: | | | | | | | Not to be expected |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Isobutane | | | | | | | |
|--|----------|------|-------|------|----------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. Bioaccumulative potential: | | | | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 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 degradability: 12.5. Results of PBT and vPvB assessment | | | | | | | Readily biodegradable No PBT substance, No |
| | | | | | | | vPvB substance |

| Isopentane | | | | | | | |
|----------------------------|----------|------|-------|------|---------------|-------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 3,1 | mg/l | Oncorhynchus | | |
| | | | | | mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 2,3 | mg/l | Daphnia magna | | |
| 12.2. Persistence and | | 12d | 100 | % | | | |
| degradability: | | | | | | | |

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

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.



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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

(GB)

Pay attention to local and national official regulations. 15 01 04 metallic packaging 15 01 10 packaging containing residues of or contaminated by hazardous substances Recycling Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

| O an analysis at a family and a | | |
|--|---------------------|---|
| General statements | | |
| 14.1. UN number or ID 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 | Image: A set of the set of the |
| 14.4. Packing group: | - | |
| Classification code: | 5F | |
| LQ: | 1L | |
| 14.5. Environmental hazards: | Not applicable | |
| Tunnel restriction code: | D | |
| 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 | |
| 14.6. Special precautions for user | | |
| 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. Maritime transport in bulk according to IMC |) instruments | |
| Freighted as packaged goods rather than in bulk, therefore not applica | | |
| Minimum amount regulations have not been taken into account. | | |
| Danger code and packing code on request. | | |
| Comply with special provisions. | | |
| | ulatory information | |

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, ${<}5\%$ n-hexane 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.):



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| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier 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 2010/75/EU (VOC):

99,78 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

(GB)

1-16

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 |
|--|---|
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |

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).

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard Aquatic Chronic — Hazardous to the aquatic environment - chronic Aerosol — Aerosols

Flam. Liq. — Flammable liquid

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

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.



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Any abbreviations and acronyms used in this document:

according, according to acc., acc. 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 Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate 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) **Bioconcentration factor** BCF BSEF The International Bromine Council body weight hw 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 DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances FINECS ELINCS European List of Notified Chemical Substances



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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:

(GB)

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