

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

LUBRICANT NSF H1

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

1.1. Product identifier

Product name : LUBRICANT NSF H1
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Lubricating grease

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|--|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |
| Aquatic Chronic | category 3 | H412: Harmful to aquatic life with long lasting effects. |

2.2. Label elements



Signal word : Danger

H-statements

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

P-statements

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.
P273 : Avoid release to the environment.
P410 + P412 : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

2.3. Other hazards

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Gas/vapour spreads at floor level: ignition hazard

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No List No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|---|----------------------------|---------------|---|------------|-------------|----------------------|
| petroleum gases, liquefied | 68476-85-7 270-704-2 | 10% <C<30% | Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant | |
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane 01-2119475514-35 | 921-024-6 | 5%<C<10% | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(10) | Constituent | |
| n-hexane 01-2119480412-44 | 110-54-3 203-777-6 | C<1% | Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 STOT RE 2; H373: C≥5%, (CLP Annex VI (ATP 0)) | (1)(2)(10) | Constituent | |

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, consult a doctor/medical service.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.
Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Store in a dry area. Keep container in a well-ventilated place. Protect against frost. Keep out of direct sunlight. Fireproof storeroom.

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

| | | |
|----------|---|----------------------|
| n-Hexane | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 72 mg/m ³ |

Belgium

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| | | |
|------------------------|--|------------------------|
| n-Hexane | Time-weighted average exposure limit 8 h | 20 ppm |
| | Time-weighted average exposure limit 8 h | 72 mg/m ³ |
| Pétrole (gaz liquéfié) | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Time-weighted average exposure limit 8 h | 1826 mg/m ³ |

The Netherlands

| | | |
|---------------------------|---|-----------------------|
| n-Hexaan | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 72 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 40 ppm |
| | Short time value (Public occupational exposure limit value) | 144 mg/m ³ |
| Olienevel (minerale olie) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 5 mg/m ³ |

France

| | | |
|----------|--|----------------------|
| n-Hexane | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 20 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 72 mg/m ³ |

Germany

| | | |
|---------|---|-----------------------|
| n-Hexan | Time-weighted average exposure limit 8 h (TRGS 900) | 50 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 180 mg/m ³ |

Austria

| | | |
|---------|-------------------------------|-----------------------|
| n-Hexan | Tagesmittelwert (MAK) | 20 ppm |
| | Tagesmittelwert (MAK) | 72 mg/m ³ |
| | Kurzzeitwert 15(Miw) 4x (MAK) | 80 ppm |
| | Kurzzeitwert 15(Miw) 4x (MAK) | 288 mg/m ³ |

UK

| | | |
|-------------------------|---|------------------------|
| Liquefied petroleum gas | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1750 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1250 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 2180 mg/m ³ |
| n-Hexane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 72 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|----------|--|--------|
| n-Hexane | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
|----------|--|--------|

b) National biological limit values

If limit values are applicable and available these will be listed below.

Germany

| | | | |
|---|---|--------|--|
| Hexan (n-Hexan) (2,5-Hexandion plus 4,5-Dihydroxy-2-Hexanon (nach Hydrolyse)) | Urin: expositionsende, bzw. schichtende | 5 mg/l | |
|---|---|--------|--|

USA (BEI-ACGIH)

| | | | |
|----------------------------|---------------------|----------|--------------------|
| n-Hexane (2,5-Hexanedione) | Urine: end of shift | 0,5 mg/L | Without hydrolysis |
|----------------------------|---------------------|----------|--------------------|

8.1.2 Sampling methods

| Product name | Test | Number |
|---|-------|--------|
| n-Hexane (Hydrocarbons, BP36 to 126C) | NIOSH | 1500 |
| n-Hexane (organic and inorganic gases by Extractive FTIR) | NIOSH | 3800 |
| n-Hexane (Volatile Organic compounds) | NIOSH | 2549 |
| n-Hexane | OSHA | 2248 |
| n-Hexane | OSHA | 7 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2035 mg/m ³ | |
| | Long-term systemic effects dermal | 773 mg/kg bw/day | |

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n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 75 mg/m ³ | |
| | Long-term systemic effects dermal | 11 mg/kg bw/day | |

DNEL/DMEL - General population

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 608 mg/m ³ | |
| | Long-term systemic effects inhalation | 699 mg/kg bw/day | |
| | Long-term systemic effects oral | 699 mg/kg bw/day | |

n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 16 mg/m ³ | |
| | Long-term systemic effects dermal | 5.3 mg/kg bw/day | |
| | Long-term systemic effects oral | 4 mg/kg bw/day | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|-------------------------------------|
| Physical form | Aerosol |
| Odour | Hydrocarbon odour |
| Odour threshold | No data available in the literature |
| Colour | No data available on colour |
| Particle size | Not applicable (liquid) |
| Explosion limits | 1.4 - 10.9 vol % ; Propellant |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | Not applicable (aerosol) |
| Kinematic viscosity | Not applicable (aerosol) |
| Melting point | No data available in the literature |
| Boiling point | -40 °C - -2 °C ; Propellant |
| Relative vapour density | Not applicable (aerosol) |
| Vapour pressure | 5900 hPa - 17600 hPa ; Propellant |
| Solubility | No data available in the literature |
| Relative density | 0.80 |
| Absolute density | 800 kg/m ³ |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | Not applicable (aerosol) |
| Flash point | Not applicable (aerosol) |
| pH | No data available in the literature |

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

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No (test) data on the mixture available

Judgement is based on the relevant ingredients

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

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|---------------------------|----------------------------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | | > 5840 mg/kg bw | | Rat | Read-across | |
| Dermal | LD50 | | 2800 mg/kg bw - 3100 mg/kg bw | 24 h | Rat (male / female) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 21 mg/l | 4 h | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | LC50 | | > 25.2 mg/l | 4 h | Rat (male / female) | Experimental value | |

n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|---------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 16000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3350 mg/kg bw | 4 h | Rabbit (male) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 17.6 mg/l air | 24 h | Rat (male) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

LUBRICANT NSF H1

No (test) data on the mixture available

Judgement is based on the relevant ingredients

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

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|---------------------------|---------------|----------------------------------|---------|-----------------------|------------------|
| Eye | Not irritating | Equivalent to OECD 405 | | 24; 48; 72 hours | Rabbit | Read-across | Single treatment |
| Skin | Irritating | OECD 404 | 4 h | 1; 24; 48; 72 hrs; 7; 14 days | Rabbit | Experimental value | |

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n-hexane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|--------------|---------|---------------------|--------|
| Eye | Not irritating | Equivalent to OECD 405 | | 72 hours | Rabbit | Read-across | |
| Skin | Irritating | Equivalent to OECD 404 | 24 h | 24; 72 hours | Rabbit | Read-across | |

Conclusion

Not classified as irritating to the skin
 Not classified as irritating to the eyes
 Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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No (test)data on the mixture available
 Judgement is based on the relevant ingredients
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | 24; 48 hours | Guinea pig (male / female) | Read-across | |

n-hexane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|---------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse | Read-across | |

Conclusion

Not classified as sensitizing for skin
 Not classified as sensitizing for inhalation

Specific target organ toxicity

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No (test)data on the mixture available
 Judgement is based on the relevant ingredients
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|-----------------------------|-------|-----------|--|-----------------------|---------------------|
| Dermal | NOAEL | Equivalent to OECD 453 | 0.5 ml | | | 52 weeks (3 times / week) - 104 weeks (3 times / week) | Mouse (male / female) | Experimental value |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | 24300 mg/m ³ air | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | |
| Inhalation | | | STOT SE cat.3 | | | | | Literature study |

n-hexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------------|--------------------------------------|------------------------|-----------------------|--------------------------|------------|---------------------|
| Oral (stomach tube) | NOAEL | Subchronic toxicity test | 567 mg/kg bw/day - 1135 mg/kg bw/day | | No effect | 13 weeks (5 days / week) | Rat (male) | Experimental value |
| Oral (stomach tube) | LOAEL | Subchronic toxicity test | 3956 mg/kg bw/day | Central nervous system | neurotoxic effects | 17 weeks (5 days / week) | Rat (male) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | LOAEC | Subchronic toxicity test | 3000 ppm | Central nervous system | neurotoxic effects | 16 weeks (daily) | Rat (male) | Experimental value |
| Inhalation (vapours) | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Annex VI |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available
 Judgement is based on the relevant ingredients

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

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Read-across | |

n-hexane

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|-------------------------------|-----------|---------------------|--------|
| Negative | OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value | |
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

Mutagenicity (in vivo)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

n-hexane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|--------|-----------------------------------|----------------|-------|---------------------|
| Negative (Inhalation (vapours)) | | 8 weeks (6h / day, 5 days / week) | Mouse (male) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|------------------------|----------|-------------------------------------|----------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 3000 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (female) | No carcinogenic effect | | Read-across |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (female) | Tumor formation | Liver | Read-across |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (male) | No carcinogenic effect | | Read-across |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

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

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|------------------------|-----------------------------|------------------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity | NOAEL | Equivalent to OECD 414 | 10560 mg/m ³ air | 10 days (6h / day) | Mouse | No effect | | Read-across |
| Maternal toxicity | NOAEL | Equivalent to OECD 414 | 3168 mg/m ³ air | 10 days (6h / day) | Mouse (female) | No effect | | Read-across |
| Effects on fertility | NOAEL | Equivalent to OECD 416 | 31680 mg/m ³ air | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | No effect | | Read-across |

n-hexane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|----------|--------------------------------------|---------------------|-------------------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (gestation, 6h / day) | Rat | No effect | | Experimental value |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 3000 ppm | 10 days (gestation, 6h / day) | Rat | No effect | | Experimental value |
| | LOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (gestation, 6h / day) | Rat | Maternal toxicity | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 9000 ppm | ≥ 13 weeks (6h / day, 5 days / week) | Rat (male / female) | No effect | | Experimental value |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

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Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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Dry skin.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data on the mixture available

Classification is based on the relevant ingredients

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

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|--------------------|-----------|---------------------------------|--------------------|------------------|---------------------------|
| Acute toxicity fishes | LL50 | OECD 203 | 11.4 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EL50 | OECD 202 | 3 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 30 mg/l - 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity fish | NOELR | | 2.045 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR |
| Toxicity aquatic micro-organisms | EL50 | | 35.57 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Continuous exposure |

n-hexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------|------------|-----------|---------------------------------|-------------|------------------|-----------------------------------|
| Acute toxicity fishes | LL50 | | 12.51 mg/l | 96 h | Oncorhynchus mykiss | | Fresh water | Estimated value; Lethal |
| Acute toxicity crustacea | EL50 | | 21.85 mg/l | 48 h | Daphnia magna | | Fresh water | Estimated value; Locomotor effect |
| Toxicity algae and other aquatic plants | EL50 | | 9.285 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | Estimated value; Growth rate |
| | NOELR | | 2.077 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | Estimated value; Growth rate |
| Long-term toxicity fish | NOELR | | 2.8 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | Estimated value; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 4.888 mg/l | 21 day(s) | Daphnia magna | | Fresh water | Estimated value; Reproduction |
| Toxicity aquatic micro-organisms | EL50 | | 48.39 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Growth |

Conclusion

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

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

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 98 %; Oxygen consumption | 28 day(s) | Experimental value |

n-hexane

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 98 %; Oxygen consumption | 28 day(s) | Read-across |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 23.515 h | 1.5E6 /cm ³ | Calculated value |

Conclusion

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Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

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

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|-------------------|-------|-------------|---------------------|
| | No data available | | | |

n-hexane

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|---------|----------|---------------------|---------------------|
| BCF | | 501.187 | | Pimephales promelas | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 107 | | 4 | 20 °C | Experimental value |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

n-hexane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 3.34 | QSAR |

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

12 01 12* (wastes from shaping and physical and mechanical surface treatment of metals and plastics: spent waxes and fats). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Specific treatment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

| | |
|-----------|------|
| UN number | 1950 |
|-----------|------|

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| | |
|--|--|
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Hazard identification number | |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | |
|--|--|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Hazard identification number | 23 |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | |
|--|--|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

| | |
|----------------------------------|----------|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |

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| | |
|--|--|
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Marine pollutant | - |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 277 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 381 |
| Special provisions | 63 |
| Special provisions | 959 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | |
|--|---------------------|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols, flammable |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | A145 |
| Special provisions | A167 |
| Special provisions | A802 |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 15 % - 41 % | |

Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances

| Substance or category | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|------------------------|-------------------|-------------------|-------|---|
| P3b FLAMMABLE AEROSOLS | 5000 (net) | 50000 (net) | None | Flammability |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|--|--|
| · hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane · n-hexane | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements |

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| | | |
|--|---|--|
| | | <p>are met:</p> <p>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</p> <p>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</p> <p>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> |
| <p>· hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane</p> <p>· n-hexane</p> | <p>Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.</p> | <p>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:</p> <ul style="list-style-type: none"> — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. <p>2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:</p> <p>"For professional users only".</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.</p> <p>4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</p> |
| <p>· n-hexane</p> | <p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.</p> <p>The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.</p> | <p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p> |

National legislation Belgium

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No data available

petroleum gases, liquefied

| | |
|---------------------------|--|
| Additional classification | Pétrole (gaz liquéfié); C; La mention "C" signifie que l'agent en question relève du champ d'application de l'arrêté royal du 2 décembre 1993 concernant la protection des travailleurs contre les risques liés à l'exposition à des agents cancérigènes et mutagènes et reprotoxiques au travail. |
|---------------------------|--|

National legislation The Netherlands

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| | |
|--|--|
| Waterbezwaarlijkheid | Z (2); Algemene Beoordelingsmethodiek (ABM) |
| n-hexane | |
| SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid) | n-hexaan; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2 |

National legislation France

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No data available

n-hexane

| | |
|--|--------------|
| Catégorie toxique pour la reproduction | n-Hexane; R2 |
|--|--------------|

National legislation Germany

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| | |
|-----------------------|--|
| Lagerklasse (TRGS510) | 2B: Aerosolpackungen und Feuerzeuge |
| WGK | 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |

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

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

n-hexane

| | |
|---------------------------------------|--|
| TA-Luft | 5.2.5/I |
| TRGS900 - Risiko der Fruchtschädigung | n-Hexan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

National legislation Austria

LUBRICANT NSF H1

No data available

n-hexane

| | |
|---|------------|
| Fortpflanzungsgefährdend [Beeinträchtigung der Fortpflanzungsfähigkeit (Fruchtbarkeit)] | n-Hexan; f |
|---|------------|

National legislation United Kingdom

LUBRICANT NSF H1

No data available

Other relevant data

LUBRICANT NSF H1

No data available

n-hexane

| | |
|-----------------------|--|
| TLV - Skin absorption | n-Hexane; Skin; Danger of cutaneous absorption |
|-----------------------|--|

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs (nervous system) through prolonged or repeated exposure if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEC/NOAEL | No Observed Adverse Effect Concentration/No Observed Adverse Effect Level |
| NOEC/NOEL | No Observed Effect Concentration/No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and

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according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.