# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# SILICON 100

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

### 1.1. Product identifier

**Product name** : SILICON 100
**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**

Lubricant

**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@tec7.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 |
|---|---|---|
| Flam. Liq. | category 2 | H225: Highly flammable liquid and vapour. |
| Asp. Tox. | category 1 | H304: May be fatal if swallowed and enters airways. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

### 2.2. Label elements

Contains: pentane; hydrocarbons, C6, isoalkanes, < 5% n-hexane; hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane.

**Signal word** Danger

**H-statements**

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.

**P-statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves, protective clothing and eye protection/face protection.

| | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P331 | Do NOT induce vomiting. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |

### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name<br>REACH Registration No | CAS No<br>EC No | Conc. (C) | Classification according to CLP | Note | Remark |
|---|---|---|---|---|---|
| pentane<br>01-2119459286-30 | 109-66-0<br>203-692-4 | 30%≤C<50% | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 | (1)(2)(10) | Constituent |
| hydrocarbons, C6, isoalkanes, <5% n-hexane<br>01-2119484651-34 | | 25%≤C<30 % | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 | (1)(10) | Constituent |
| hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>01-2119486291-36 | | 20%≤C<25% | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411 | (1)(10) | Constituent |

(1) For H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General:**

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

**After inhalation:**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**After skin contact:**

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Take victim to a doctor if irritation persists.

**After eye contact:**

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

**After ingestion:**

Rinse mouth with water. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

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

**4.2.1 Acute symptoms**

**After inhalation:**

EXPOSURE TO HIGH CONCENTRATIONS: Headache. Central nervous system depression. Narcosis.

**After skin contact:**

Tingling/irritation of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

**After eye contact:**

No effects known.

**After ingestion:**

Risk of aspiration pneumonia.

**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:**

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

**5.1.2 Unsuitable extinguishing media:**

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

**5.3.1 Instructions:**

Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant 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. Protective goggles. Head/neck protection. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Large spills/in enclosed spaces: gas-tight suit. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

Keep upwind. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed.

**6.1.1 Protective equipment for non-emergency personnel**

See heading 8.2

**6.1.2 Protective equipment for emergency responders**

Gloves. Protective goggles. Head/neck protection. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Large spills/in enclosed spaces: gas-tight suit.

Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into absorbent material, e.g.: sand, saw dust, kieselguhr. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. 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 heading 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. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Avoid prolonged and repeated contact with skin. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

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

**7.2.1 Safe storage requirements:**

Store in a cool area. Keep out of direct sunlight. Store in a dry area. Ventilation at floor level. Provide for a tub to collect spills. Keep only in the original container. Meet the legal requirements.

**7.2.2 Keep away from:**

Heat sources, ignition sources, oxidizing agents.

**7.2.3 Suitable packaging material:**

No data available

**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**

| | | |
|---|---|---|
| Pentane | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 3000 mg/m³ |

**Belgium**

| | | |
|---|---|---|
| Pentane, tous isomères | Time-weighted average exposure limit 8 h | 600 ppm |
| | Time-weighted average exposure limit 8 h | 1800 mg/m³ |
| | Short time value | 750 ppm |
| | Short time value | 2250 mg/m³ |

**The Netherlands**

| | | |
|---|---|---|
| n-Pentaan | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 1800 mg/m³ |

**France**

| | | |
|---|---|---|
| n-Pentane | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 3000 mg/m³ |

**Germany**

| | | |
|---|---|---|
| Pentan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 3000 mg/m³ |

**UK**

| | | |
|---|---|---|
| Pentane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1800 mg/m³ |

**USA (TLV-ACGIH)**

| | | |
|---|---|---|
| Pentane, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 1000 ppm |

**b) National biological limit values**

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

#### 8.1.2 Sampling methods

| Product name | Test | Number |
|---|---|---|
| N-PENTANE (HYDROCARBONS, BP 36 TO 126 °C) | NIOSH | 1500 |
| n-Pentane (Volatile Organic compounds) | NIOSH | 2549 |
| Pentane | 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**

pentane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 3000 mg/m³ | |
| | Long-term systemic effects dermal | 432 mg/kg bw/day | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 5306 mg/m³ | |
| | Long-term systemic effects dermal | 13964 mg/kg bw/day | |

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 5306 mg/m³ | |
| | Long-term systemic effects dermal | 13964 mg/kg bw/day | |

**DNEL/DMEL - General population**

pentane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 643 mg/m³ | |
| | Long-term systemic effects dermal | 214 mg/kg bw/day | |
| | Long-term systemic effects oral | 214 mg/kg bw/day | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 1131 mg/m³ | |
| | Long-term systemic effects dermal | 1377 mg/kg bw/day | |
| | Long-term systemic effects oral | 1301 mg/kg bw/day | |

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

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 1131 mg/m³ | |
| | Long-term systemic effects dermal | 1377 mg/kg bw/day | |
| | Long-term systemic effects oral | 1301 mg/kg bw/day | |

**PNEC**

pentane

| Compartments | Value | Remark |
|---|---|---|
| Fresh water | 230 µg/l | |
| Marine water | 230 µg/l | |
| Fresh water (intermittent releases) | 880 µg/l | |
| STP | 3600 µg/l | |
| Fresh water sediment | 1.2 mg/kg sediment dw | |
| Marine water sediment | 1.2 mg/kg sediment dw | |
| Soil | 0.55 mg/kg soil dw | |

**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. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe normal hygiene standards. Avoid prolonged and repeated contact with skin. 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 (EN374).

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

**8.2.3 Environmental exposure controls:**

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical form | Liquid |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Colourless |
| Particle size | Not applicable (liquid) |
| Explosion limits | 1.1 - 8.3 vol % |
| Flammability | Highly flammable liquid and vapour. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | < 7 mm²/s ; 40 °C |
| Melting point | No data available |
| Boiling point | 36 °C - 80 °C |
| Evaporation rate | No data available |
| Relative vapour density | > 2 |
| Vapour pressure | 1150 hPa ; 20 °C |
| Solubility | Water ; insoluble |
| Relative density | 0.66 ; 20 °C |
| Decomposition temperature | No data available |
| Auto-ignition temperature | 260 °C |

| | |
|---|---|
| Flash point | < -10 °C |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

### 9.2. Other information

| | |
|---|---|
| Absolute density | 660 kg/m³ ; 20 °C |

## 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. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges.

### 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 toxicological effects

**11.1.1 Test results**

**Acute toxicity**

SILICON 100

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pentane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | OECD 401 | > 2000 mg/kg | | Rat (male / female) | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation (vapours) | LC50 | | > 20 mg/l air | 4 h | Rat (male / female) | Experimental value | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | Equivalent to OECD 401 | > 16750 mg/kg bw | | Rat (male) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3350 mg/kg bw | 4 h | Rabbit (male) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | 259.354 mg/l | 4 h | Rat (male) | Read-across | |

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

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | Equivalent to OECD 401 | > 16750 mg/kg bw | | Rat (male) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3350 mg/kg bw | 4 h | Rabbit (male) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | 259354 mg/m³ air | 4 h | Rat (male) | Read-across | |

**Conclusion**

Not classified for acute toxicity

**Corrosion/irritation**

SILICON 100

No (test)data on the mixture available

Classification is based on the relevant ingredients

pentane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Eye | Not irritating | OECD 405 | | 1; 24; 48; 72 hours | Rabbit | Experimental value | Single exposure |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | Human observation | 24 h | | Human | Experimental value | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

hydrocarbons, C6-C7, 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 | 72 h | 24; 48; 72 hours | Rabbit | Read-across | |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

**Conclusion**

Causes skin irritation.

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

**Respiratory or skin sensitisation**

SILICON 100

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pentane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Skin | Not sensitizing | Equivalent to OECD 406 | | 24 hours | Guinea pig (female) | Experimental value | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

hydrocarbons, C6-C7, 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 429 | | | Mouse | Read-across | |

**Conclusion**

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

**Specific target organ toxicity**

SILICON 100

No (test)data on the mixture available

Classification is based on the relevant ingredients

pentane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral | | | | | | | | Data waiving |
| Dermal | | | | | | | | Data waiving |
| Inhalation (gases) | NOAEC | OECD 413 | 20000 mg/m³ | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Literature study |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | 10504 mg/m³ air | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male) | Read-across |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 413 | 31652 mg/m³ air | Liver; kidney | Organ damage | 13 weeks (6h / day, 5 days / week) | Rat (male) | Read-across |

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

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 424 | 9000 ppm | Central nervous system | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |
| Inhalation | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Literature study |

**Conclusion**

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

**Mutagenicity (in vitro)**

SILICON 100

No (test)data on the mixture available

pentane

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

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

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

| Result | Method | Test substrate | Effect | Value determination |
|---|---|---|---|---|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Read-across |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Read-across |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Chinese hamster ovary (CHO) | No effect | Read-across |

**Mutagenicity (in vivo)**

SILICON 100

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pentane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative | EU Method B.12 | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | | Experimental value |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative (Inhalation (vapours)) | Equivalent to OECD 475 | 5 days (6h / day) | Rat (male / female) | Bone marrow | Experimental value |

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

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative | Equivalent to OECD 475 | 5 days (6h / day) | Rat (male / female) | Bone marrow | Experimental value |

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

SILICON 100

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pentane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Inhalation | | | | | | | | Data waiving |
| Dermal | | | | | | | | Data waiving |
| Oral | | | | | | | | Data waiving |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9016 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% 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 | | Experimental value |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (female) | Weight changes | Liver | Experimental value |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (male) | No carcinogenic effect | | Experimental value |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9016 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

**Conclusion**

Not classified for carcinogenicity

**Reproductive toxicity**

SILICON 100

No (test)data on the mixture available

Judgement is based on the relevant ingredients

pentane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity | NOAEL (P) | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat (female) | No effect | | Experimental value |
| Maternal toxicity | NOAEL | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat (female) | No effect | | Experimental value |
| Effects on fertility | NOAEC (P/F1) | Equivalent to OECD 416 | 7000 ppm | | Rat (male / female) | Reproductive performance | | Read-across |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | > 7000 ppm | 10 days (6h / day) | Rat | No effect | | Read-across |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 2000 ppm | 10 days (6h / day) | Rat (female) | No effect | | Read-across |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 9000 ppm | | Rat (male / female) | No effect | | Read-across |

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

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity | NOAEC | Equivalent to OECD 414 | 3000 ppm | 10 days (6h / day) | Mouse | No effect | | Read-across |
| | LOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (6h / day) | Mouse | Minor skeletal variations | Skeleton | Read-across |
| | NOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (6h / day) | Rat | No effect | | Read-across |
| Maternal toxicity | NOAEC | Equivalent to OECD 414 | 3000 ppm | 10 days (6h / day) | Rat (female) | No effect | | Read-across |
| | LOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (6h / day) | Rat (female) | Reduced body weight and food consumption | Lungs | Read-across |
| | NOAEC | Equivalent to OECD 414 | 900 ppm | 10 days (6h / day) | Mouse (female) | No effect | | Read-across |
| | LOAEC | OECD 414 | 3000 ppm | 10 days (6h / day) | Mouse (female) | Lung tissue affection/degeneration | Lungs | Read-across |
| Effects on fertility | LOAEC | Equivalent to OECD 416 | 9000 ppm | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Body weight reduction | General | Experimental value |

**Conclusion**

Not classified for reprotoxic or developmental toxicity

**Aspiration hazard**

Classification is based on the relevant ingredients
May be fatal if swallowed and enters airways.

**Toxicity other effects**

SILICON 100

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

pentane

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|
| | | | Skin | Skin dryness or cracking | | | Literature study |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|
| NOAEC | Equivalent to OECD 424 | 9000 ppm | Central nervous system | Overall effects | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |

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

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|
| | | | Skin | Skin dryness or cracking | | | Literature study |

**Chronic effects from short and long-term exposure**

SILICON 100

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

SILICON 100

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

pentane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 4.26 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | Other | 2.7 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 10.7 mg/l | 72 h | Scenedesmus sp. | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity fish | NOELR | | 6.165 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 10.76 mg/l | 21 day(s) | Daphnia magna | | Fresh water | QSAR; Reproduction |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LL50 | | 18.27 mg/l | 96 h | Oncorhynchus mykiss | | Fresh water | QSAR |
| Acute toxicity crustacea | EL50 | | 31.9 mg/l | 48 h | Daphnia magna | | Fresh water | QSAR |
| Toxicity algae and other aquatic plants | EL50 | | 13.56 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | QSAR |
| Long-term toxicity fish | NOELR | | 4.089 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR |
| Long-term toxicity aquatic crustacea | NOELR | | 7.138 mg/l | 21 day(s) | Daphnia magna | | Fresh water | QSAR |

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

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

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LL50 | OECD 203 | 12 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 | EL50 | OECD 201 | 55 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | | Experimental value; Growth rate |
| Long-term toxicity fish | NOELR | | 2.187 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 3.818 mg/l | 21 day(s) | Daphnia magna | | Fresh water | QSAR; Reproduction |
| Toxicity aquatic micro-organisms | EL50 | | 37.91 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Growth inhibition |

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

**Conclusion**

Toxic to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

pentane

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| Equivalent or similar to OECD 301F | 87 %; GLP | 28 day(s) | Experimental value |

**Phototransformation air (DT50 air)**

| Method | Value | Conc. OH-radicals | Value determination |
|---|---|---|---|
| | 3.95 day(s) | 500000 /cm³ | Calculated value |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301F: Manometric Respirometry Test | 98 %; GLP | 28 day(s) | Read-across |

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

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301F: Manometric Respirometry Test | 98 %; GLP | 28 day(s) | Experimental value |

**Conclusion**

Does not contain any not readily biodegradable component(s)

## 12.3. Bioaccumulative potential

SILICON 100

**Log Kow**

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

pentane

**BCF fishes**

| Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|
| BCF | | 171 | | Pimephales promelas | QSAR |

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| Other | | 3.45 | 25 °C | Experimental value |

hydrocarbons, C6, isoalkanes, < 5% 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 | | 3.6 | 20 °C | Read-across |

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

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | | 3.6 | 20 °C | Conclusion by analogy |

**Conclusion**

Contains bioaccumulative component(s)

### 12.4. Mobility in soil

pentane

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | | 2.9 | QSAR |

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level III | 97.7 % | 0 % | 0.5 % | 0 % | 1.8 % | Calculated value |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | | 3.34 | Calculated value |

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level III | 93.6 % | 0 % | 2.1 % | 0.5 % | 3.8 % | Calculated value |

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

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level III | 97 % | 0 % | 1 % | 0.7 % | 1.5 % | Calculated value |

**Conclusion**

Contains component(s) that adsorb(s) into the soil
Contains component(s) with potential for mobility in 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. Other adverse effects

SILICON 100

**Fluorinated greenhouse gases (Regulation (EU) No 517/2014)**

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).
13 02 05* (waste engine, gear and lubricating oils: mineral-based non-chlorinated engine, gear and lubricating oils). Depending on branch of industry and production process, also other waste codes may be applicable.

**13.1.2 Disposal methods**

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.

**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 | 3295 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Hydrocarbons, liquid, n.o.s. |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---|---|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 640D |
| 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 | 3295 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Hydrocarbons, liquid, n.o.s. |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---|---|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 640D |
| 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 | 3295 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Hydrocarbons, liquid, n.o.s. |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---|---|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 640D |
| 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 | 3295 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | hydrocarbons, liquid, n.o.s. (pentane) |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 3 |

14.4. Packing group

| | |
|---|---|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant | P |
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | |
| 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. Transport in bulk according to Annex II of Marpol and the IBC Code

| | |
|---|---|
| Annex II of MARPOL 73/78 | Not applicable, based on available data |

### Air (ICAO-TI/IATA-DGR)

14.1. UN number

| | |
|---|---|
| UN number | 3295 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Hydrocarbons, liquid, n.o.s. |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 3 |

14.4. Packing group

| | |
|---|---|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | yes |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | A3 |
| Special provisions | A324 |

Passenger and cargo transport

| | |
|---|---|
| Limited quantities: maximum net quantity per packaging | 1 L |

## 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 |
|---|---|
| ≥ 75 % | |

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 |
|---|---|---|
| · pentane<br>· hydrocarbons, C6, isoalkanes, < 5% n-hexane<br>· hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% 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:<br>(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;<br>(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;<br>(c) hazard class 4.1;<br>(d) hazard class 5.1. | 1. Shall not be used in:<br>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,<br>— tricks and jokes,<br>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,<br>2. Articles not complying with paragraph 1 shall not be placed on the market.<br>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:<br>— can be used as fuel in decorative oil lamps for supply to the general public, and,<br>— present an aspiration hazard and are labelled with H304,<br>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).<br>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 are met:<br>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”;<br>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";<br>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.<br>6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public.<br>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| · pentane<br>· hydrocarbons, C6, isoalkanes, < 5% n-hexane<br>· hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane | 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. | 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:<br>— metallic glitter intended mainly for decoration,<br>— artificial snow and frost,<br>— "whoopee" cushions,<br>— silly string aerosols,<br>— imitation excrement,<br>— horns for parties,<br>— decorative flakes and foams,<br>— artificial cobwebs,<br>— stink bombs.<br>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:<br>"For professional users only".<br>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.<br>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. |

**National legislation Belgium**

SILICON 100

No data available

**National legislation The Netherlands**

SILICON 100

| | |
|---|---|
| Waterbezwaarlijkheid | A (2); Algemene Beoordelingsmethodiek (ABM) |

**National legislation France**

SILICON 100

No data available

**National legislation Germany**

SILICON 100

| | |
|---|---|
| WGK | 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |

pentane

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

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| | |
|---|---|
| TA-Luft | 5.2.5/I |

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

| | |
|---|---|
| TA-Luft | 5.2.5/I |

**National legislation United Kingdom**

SILICON 100

No data available

**Other relevant data**

SILICON 100

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

**Full text of any H-statements referred to under heading 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.

| | |
|---|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| 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 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| 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 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.