# SAFETY DATA SHEET

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

# NOVA PTFE OIL AEROSOL

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

### 1.1. Product identifier

**Product name** : NOVA PTFE OIL AEROSOL
**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@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.

**Supplemental information**

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard
Caution! Substance is absorbed through the skin

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name<br>REACH Registration No | CAS No<br>EC No<br>List No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|---|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light paraffinic<br>01-2119487077-29 | 64742-55-8<br>265-158-7 | 25%<br><C<50% | Asp. Tox. 1; H304 | (1)(2)(10)(6) | Constituent | |
| propane<br>01-2119486944-21 | 74-98-6<br>200-827-9 | 12.5%<br><C<20% | Flam. Gas 1A; H220<br>Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant | |
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>01-2119457273-39 | 918-481-9 | 10%<br><C<12.5% | Asp. Tox. 1; H304<br>EUH066 | (1)(10) | Constituent | |
| butane<br>01-2119474691-32 | 106-97-8<br>203-448-7 | 10%<br><C<12.5% | Flam. Gas 1A; H220<br>Press. Gas - Liquefied gas; H280 | (1)(2)(10)(21) | Propellant | |
| pentane<br>01-2119459286-30 | 109-66-0<br>203-692-4 | 10%<br><C<12.5% | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>STOT SE 3; H336<br>Aquatic Chronic 2; H411<br>EUH066 | (1)(2)(10) | Constituent | |
| isobutane<br>01-2119485395-27 | 75-28-5<br>200-857-2 | 10%<br><C<12.5% | Flam. Gas 1A; H220<br>Press. Gas - Liquefied gas; H280 | (1)(2)(10)(21) | Propellant | |

(1) For H- and EUH-statements in full: see section 16
(2) Substance with a Community workplace exposure limit
(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006
(21) 1,3-butadiene <0.1%
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:**
Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

**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. If irritation persists, consult a doctor/medical service.

**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:**
ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

**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:**

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: persistant risk of physical explosion. Take account of environmentally hazardous firefighting water.

**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. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

**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

Contain released product. 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. Avoid prolonged and repeated contact with skin. Remove contaminated clothing immediately.

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

**7.2.1 Safe storage requirements:**

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

**7.2.2 Keep away from:**

Heat sources, ignition sources.

**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**

| | | |
|---|---|---|
| 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**

| | | |
|---|---|---|
| Butane, tous isomères: iso-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m³ |
| Butane, tous isomères: n-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m³ |
| Huiles minérales (brouillards) | Time-weighted average exposure limit 8 h | 5 mg/m³ |
| | Short time value | 10 mg/m³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |
| 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 |
| Olienevel (minerale olie) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 5 mg/m³ |

**France**

| | | |
|---|---|---|
| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 800 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1900 mg/m³ |
| 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**

| | | |
|---|---|---|
| Butan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm **(1)** |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m³ **(1)** |
| Isobutan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm **(1)** |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m³ **(1)** |
| Pentan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm **(2)** |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 3000 mg/m³ **(2)** |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm **(1)** |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m³ **(1)** |

(1) UF: 4 (II)
(2) UF: 2 (II)

**Austria**

| | | |
|---|---|---|
| Butan (beide Isomeren): n-Butan (R 600) Isobutan (R 600a) | Tagesmittelwert (MAK) | 800 ppm |
| | Tagesmittelwert (MAK) | 1900 mg/m³ |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 1600 ppm |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 3800 mg/m³ |
| Pentan (alle Isomeren): n-Pentan Isopentan tert-Pentan | Tagesmittelwert (MAK) | 600 ppm |
| | Tagesmittelwert (MAK) | 1800 mg/m³ |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 1200 ppm |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 3600 mg/m³ |
| Propan (R 290) | Tagesmittelwert (MAK) | 1000 ppm |
| | Tagesmittelwert (MAK) | 1800 mg/m³ |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 2000 ppm |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 3600 mg/m³ |

**UK**

| | | |
|---|---|---|
| Butane | 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)) | 1450 mg/m³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 750 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1810 mg/m³ |
| 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)**

| | | |
|---|---|---|
| Butane, isomers | Short time value (TLV - Adopted Value) | 1000 ppm |
| | *Explosion hazard* | |
| Mineral oil, excluding metal working fluids: Poorly and mildly refined | *Exposure by all routes should be carefully controlled to levels as low as possible* | |
| Pentane, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 1000 ppm |
| Propane | *See Appendix F: Minimal Oxygen Content; Simple asphyxiant, Explosion hazard* | |

**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 |
| Oil Mist (Mineral) | NIOSH | 5026 |

**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**

Distillates (petroleum), hydrotreated light paraffinic

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 2.73 mg/m³ | |
| | Long-term local effects inhalation | 5.58 mg/m³ | |
| | Long-term systemic effects dermal | 0.97 mg/kg bw/day | |

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 | |

**DNEL/DMEL - General population**

Distillates (petroleum), hydrotreated light paraffinic

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects oral | 0.74 mg/kg bw/day | |

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 | |

**PNEC**

Distillates (petroleum), hydrotreated light paraffinic

| Compartments | Value | Remark |
|---|---|---|
| Oral | 9.33 mg/kg food | |

**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. 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:

Hand protection not required in normal conditions.

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034). Head/neck protection.

**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 |
| Colour | Light brown |
| Odour | Solvent-like odour |
| Odour threshold | No data available in the literature |
| Melting point | Not applicable (aerosol) |
| Boiling point | No data available in the literature |
| Flammability | Extremely flammable aerosol. |
| Explosion limits | 0.6 - 10.9 vol % ; Propellant |
| Flash point | Not applicable (aerosol) |
| Auto-ignition temperature | Not applicable (aerosol) |
| Decomposition temperature | No data available in the literature |
| pH | Not applicable (non-soluble in water) |
| Kinematic viscosity | Not applicable (aerosol) |
| Solubility | Water ; insoluble |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | 3500 hPa ; 20 °C ; Propellant |
| Absolute density | 700 kg/m³ ; 20 °C ; Liquid |
| Relative density | 0.70 ; 20 °C ; Liquid |
| Relative vapour density | No data available in the literature |
| Particle size | Not applicable (aerosol) |

### 9.2. Other information

No data available

## 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

No data available.

### 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**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | OECD 401 | > 5000 mg/kg bw | | Rat (male / female) | Read-across | |
| Dermal | LD50 | OECD 402 | > 5000 mg/kg bw | 24 h | Rabbit (male / female) | Read-across | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5.53 mg/l air | 4 h | Rat (male / female) | Read-across | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | Equivalent to OECD 401 | > 15000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3160 mg/kg bw | 24 h | Rabbit (male / female) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 6.1 mg/l air | 4 h | Rat (male / female) | Read-across | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5.6 mg/l | 4 h | Rat (male / female) | Read-across | |

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 | |

**Conclusion**

Not classified for acute toxicity

**Corrosion/irritation**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| 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 with rinsing |
| Skin | Not irritating | Equivalent to OECD 404 | 24 h | 24; 48; 72 hours | Rabbit | Read-across | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| 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 without rinsing |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Read-across | |

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 treatment |
| 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 | |

**Conclusion**

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

**Respiratory or skin sensitisation**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig (male) | Read-across | |
| Skin | Not sensitizing | Human observation | | | Human (male / female) | Experimental value | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

pentane

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

**Conclusion**

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

**Specific target organ toxicity**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (stomach tube) | LOAEL | Equivalent to OECD 408 | 125 mg/kg bw/day | | Overall effects | 13 weeks (5 days / week) | Rat (male) | Read-across |
| Dermal | NOAEL | OECD 410 | 1000 mg/kg bw/day | | No adverse systemic effects | 4 weeks (6h / day, 3 days / week) | Rabbit (male / female) | Read-across |
| Inhalation (aerosol) | NOAEC | Equivalent to OECD 412 | > 980 mg/m³ air | | No adverse systemic effects | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |
| Inhalation (aerosol) | NOEL | Equivalent to OECD 412 | 220 mg/m³ air | Lungs | No effect | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (stomach tube) | NOAEL | EPA OPP 82-1 | ≥ 500 mg/kg bw/day | | No adverse systemic effects | 13 weeks (7 days / week) | Rat (male / female) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC systemic effects | Equivalent to OECD 413 | 6000 mg/m³ air | | No adverse systemic effects | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |

pentane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (stomach tube) | Dose level | Subacute toxicity test | 2000 mg/kg bw/day | Kidney | No adverse systemic effects | 4 weeks (5 days / week) | Rat (male) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | 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 | | | Annex VI |

**Conclusion**

Not classified for subchronic toxicity

**Mutagenicity (in vitro)**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|---|---|---|---|---|
| Positive with metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Read-across | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | | Read-across | |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | | Read-across | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|---|---|---|---|---|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S. typhimurium and E. coli) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Human lymphocytes | No effect | Experimental value | |

pentane

| 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 | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | EU Method B.10 | Chinese hamster ovary (CHO) | No effect | Experimental value | |

**Mutagenicity (in vivo)**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative (Intraperitoneal) | OECD 474 | | Mouse (male / female) | Bone marrow | Read-across |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative (Oral (stomach tube)) | Equivalent to OECD 474 | | Mouse (male / female) | | Experimental value |

pentane

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

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Dermal | | Equivalent to OECD 451 | | 78 week(s) | Mouse (female) | No carcinogenic effect | | Read-across |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Dermal | NOAEL | Carcinogenic toxicity study | 50 % | 52 week(s) | Mouse (male) | No carcinogenic effect | | Experimental value |

pentane

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

**Conclusion**

Not classified for carcinogenicity

**Reproductive toxicity**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Dermal) | NOAEL | Equivalent to OECD 414 | 30 mg/kg bw/day | 20 days (gestation, daily) | Rat | No effect | | Read-across |
| | LOAEL | Equivalent to OECD 414 | 125 mg/kg bw/day | 20 days (gestation, daily) | Rat | Embryotoxicity and fetotoxicity | | Read-across |
| Maternal toxicity (Dermal) | LOAEL | Equivalent to OECD 414 | 8 mg/kg bw/day | 20 days (gestation, daily) | Rat | Maternal toxicity | | Read-across |
| Effects on fertility (Oral (stomach tube)) | NOAEL | OECD 421 | ≥ 1000 mg/kg bw/day | | Rat (male / female) | No effect | | Read-across |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | ≥ 5220 mg/m³ air | 10 days (gestation, daily) | Rat | No effect | | Read-across |
| Maternal toxicity (Oral (stomach tube)) | NOAEC | Equivalent to OECD 414 | ≥ 5220 mg/m³ air | 10 day(s) | Rat | No effect | | Read-across |

pentane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Oral (stomach tube)) | NOAEL (P) | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC (P/F1) | Equivalent to OECD 416 | 24.08 mg/m³ | | Rat (male / female) | No effect | | Read-across |

**Conclusion**

Not classified for reprotoxic or developmental toxicity

**Aspiration hazard**

Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

**Toxicity other effects**

NOVA PTFE OIL AEROSOL

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

**Conclusion**

Repeated exposure may cause skin dryness or cracking.

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

NOVA PTFE OIL AEROSOL

No effects known.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Classification is based on the relevant ingredients

Distillates (petroleum), hydrotreated light paraffinic

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LL50 | OECD 203 | > 100 mg/l | 96 h | Pimephales promelas | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | Equivalent to OECD 202 | > 10000 mg/l | 48 h | Daphnia magna | Static system | Fresh water | |
| Toxicity algae and other aquatic plants | NOEC | OECD 201 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| Long-term toxicity fish | NOELR | | ≥ 1000 mg/l | 14 day(s) | Oncorhynchus mykiss | | Fresh water | Estimated value; Lethal |
| Long-term toxicity aquatic crustacea | NOEC | Equivalent to OECD 211 | 10 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Nominal concentration |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LL50 | OECD 203 | > 1000 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | OECD 202 | > 1000 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | EL50 | OECD 201 | > 1000 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| | NOELR | OECD 201 | 1000 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Toxicity aquatic micro-organisms | EL50 | | > 1000 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR |

pentane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 4.3 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | | 2.7 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 11 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; GLP |
| | NOEC | OECD 201 | 7.5 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOELR | | 6.2 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 11 mg/l | 21 day(s) | Daphnia magna | | Fresh water | QSAR; Reproduction |
| Toxicity aquatic micro-organisms | EL50 | | 106 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Growth |

**Conclusion**

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated light paraffinic

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301F | 31 %; Oxygen consumption | 28 day(s) | Experimental value |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301F | 80 %; GLP | 28 day(s) | Read-across |

**Biodegradation soil**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| Equivalent to OECD 304A | 60 % - 63 %; Oxygen consumption | 61 day(s) | Read-across |

pentane

**Biodegradation water**

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

**Phototransformation air (DT50 air)**

| Method | Value | Conc. OH-radicals | Value determination |
|---|---|---|---|
| | 4 day(s) | 5E5 /cm³ | Calculated value |

**Conclusion**

**Water**

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

NOVA PTFE OIL AEROSOL

**Log Kow**

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

Distillates (petroleum), hydrotreated light paraffinic

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | No data available in the literature | | | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | | 3.2 - 7.2 | | Estimated value |

pentane

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | | 3.5 | 25 °C | Experimental value |

**Conclusion**

No straightforward conclusion can be drawn based upon the available numerical values

## 12.4. Mobility in soil

Distillates (petroleum), hydrotreated light paraffinic

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | SRC PCKOCWIN v2.0 | 5.3 - 5.8 | Calculated value |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | | 4.2 | Read-across |

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level III | 66 % | 0 % | 23 % | 9.6 % | 1.7 % | Calculated value |

pentane

**(log) Koc**

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

**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. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

NOVA PTFE OIL AEROSOL

**Greenhouse gases**

Contains component(s) included in the list of substances which may contribute to the greenhouse effect (IPCC)

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)

**Groundwater**

Groundwater pollutant

Distillates (petroleum), hydrotreated light paraffinic

**Groundwater**

Groundwater pollutant

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Groundwater**

Groundwater pollutant

pentane

**Groundwater**

Groundwater pollutant

## 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).
20 01 13* (separately collected fractions (except 15 01): Solvents). Depending on branch of industry and production process, also other waste codes may be applicable.

**13.1.2 Disposal methods**

Specific treatment. Should not be landfilled with household waste. 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 |

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/ID number

| | |
|---|---|
| UN number/ID 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 | |
| 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/ID number

| | |
|---|---|
| UN number/ID 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 |
|---|---|
| 65.0 % | |
| 438.8 g/l | |

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 |
|---|---|---|
| · Distillates (petroleum), hydrotreated light paraffinic<br>· hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>· pentane | 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. |
| · pentane | 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. |
| · Distillates (petroleum), hydrotreated light paraffinic | Substances falling within one or more of the following points:<br>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:<br>— carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or<br>2, but excluding any such substances classified due to effects only following exposure by inhalation<br>— reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation<br>— skin sensitiser category 1, 1A or 1B<br>— skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2<br>— serious eye damage category 1 or eye irritant category 2<br>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council<br>(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.<br>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. | Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081 |

**National legislation Belgium**

NOVA PTFE OIL AEROSOL

No data available

**National legislation The Netherlands**

NOVA PTFE OIL AEROSOL

| | |
|---|---|
| Waterbezwaarlijkheid | Z (1); Algemene Beoordelingsmethodiek (ABM) |

Distillates (petroleum), hydrotreated light paraffinic

| | |
|---|---|
| SZW - Lijst van kankerverwekkende stoffen | (complexe) aardolie- en steenkoolderivaten; Opgenomen in SZW-lijst van kankerverwekkende stoffen |
| SZW - Lijst van mutagene stoffen | aardoliegassen en residuen; Opgenomen in SZW-lijst van mutagene stoffen |

**National legislation France**

NOVA PTFE OIL AEROSOL

No data available

**National legislation Germany**

NOVA PTFE OIL AEROSOL

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

Distillates (petroleum), hydrotreated light paraffinic

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

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

pentane

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

**National legislation Austria**

NOVA PTFE OIL AEROSOL

No data available

**National legislation United Kingdom**

NOVA PTFE OIL AEROSOL

No data available

**Other relevant data**

NOVA PTFE OIL AEROSOL

No data available

Distillates (petroleum), hydrotreated light paraffinic

| | |
|---|---|
| TLV - Carcinogen | Mineral oil, excluding metal working fluids: Poorly and mildly refined; A2 |

### 15.2. Chemical safety assessment

No chemical safety assessment is required for a 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.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

| | |
|---|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| LC0 | Lethal Concentration 0 % |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| LOAEC/LOAEL | Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level |
| 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 |

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