

# SAFETY DATA SHEET

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

## SURFACE RENEWER RV

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

#### 1.1. Product identifier

**Product name** : SURFACE RENEWER RV  
**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

Detergent according to Regulation (EC) No 648/2004

##### 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)  
Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2166 (Public 8 am- 10 pm)  
Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2566 (Professionals)

### 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 3 | H226: Flammable liquid and vapour.                       |
| Asp. Tox.       | category 1 | H304: May be fatal if swallowed and enters airways.      |
| STOT SE         | category 3 | H336: May cause drowsiness or dizziness.                 |
| Aquatic Chronic | category 3 | H412: Harmful to aquatic life with long lasting effects. |

#### 2.2. Label elements



Contains: hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; white mineral oil (petroleum).

**Signal word** Danger

##### H-statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

##### P-statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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|                                 |                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P280                            | Wear protective gloves and eye protection/face protection.                                                                                                            |
| P271                            | Use only outdoors or in a well-ventilated area.                                                                                                                       |
| 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.                                                                |
| P405                            | Store locked up.                                                                                                                                                      |
| P501                            | Dispose of contents/container in accordance with local/regional/national/international regulation.                                                                    |
| <b>Supplemental information</b> |                                                                                                                                                                       |
| EUH208                          | Contains: reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction. |

## 2.3. Other hazards

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<br>ATE                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|-------------------------------------------------------------------------------------------------|------------|-------------|------------------------------------------------------------------|
| hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>01-2119471843-32                                                     | 927-241-2                  | C≤70%     | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>STOT SE 3; H336<br>Aquatic Chronic 3; H412<br>EUH066 | (1)(10)    | Constituent |                                                                  |
| white mineral oil (petroleum)<br>01-2119487078-27                                                                                            | 8042-47-5<br>232-455-8     | C≤40%     | Asp. Tox. 1; H304                                                                               | (1)(2)(10) | Constituent |                                                                  |
| reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate<br>01-2119491304-40 | 1065336-91-5<br>915-687-0  | C≤0.1%    | Repr. 2; H361f<br>Skin Sens. 1A; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410       | (1)(10)    | Constituent | M: 1 (Acute, BIG)<br>M: 1 (Chronic, ECHA (registration dossier)) |

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

(2) Substance with a Community workplace exposure limit

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

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:

EXPOSURE TO HIGH CONCENTRATIONS: Dizziness. Drowsiness.

##### After skin contact:

No effects known.

##### After eye contact:

Redness of the eye tissue.

##### After ingestion:

Headache. Vomiting. Abdominal pain. Diarrhoea. Drowsiness.

#### 4.2.2 Delayed symptoms

No effects known.

Reason for revision: 1; 2; 4; 6; 7; 8; 9; 10; 11; 12; 15; 16

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Revision number: 0700

BIG number: 50902

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## 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:

Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

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

## SECTION 6: Accidental release measures

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

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. 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. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into inert 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

Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Use spark-/explosionproof appliances and lighting system. Observe strict hygiene. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Storage temperature:  $\leq 50$  °C. Meet the legal requirements. Fireproof storeroom. Protect against frost. Keep out of direct sunlight.

#### 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

#### 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.

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## 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.

##### Belgium

|                                |                                          |                      |
|--------------------------------|------------------------------------------|----------------------|
| Huiles minérales (brouillards) | Time-weighted average exposure limit 8 h | 5 mg/m <sup>3</sup>  |
|                                | Short time value                         | 10 mg/m <sup>3</sup> |

##### The Netherlands

|                           |                                                                                     |                     |
|---------------------------|-------------------------------------------------------------------------------------|---------------------|
| Olienevel (minerale olie) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 5 mg/m <sup>3</sup> |
|---------------------------|-------------------------------------------------------------------------------------|---------------------|

##### Germany

|                          |                                                     |                         |
|--------------------------|-----------------------------------------------------|-------------------------|
| Weißes Mineralöl (Erdöl) | Time-weighted average exposure limit 8 h (TRGS 900) | 5 mg/m <sup>3</sup> (1) |
|--------------------------|-----------------------------------------------------|-------------------------|

(1) Alveolengängige Fraktion; UF: 4 (II)

##### USA (TLV-ACGIH)

|                                                                                |                                                                |                         |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------|
| Mineral oil, excluding metal working fluids: Pure, highly and severely refined | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 5 mg/m <sup>3</sup> (1) |
|--------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------|

(1) (I): Inhalable fraction

##### 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 |
|--------------------|-------|--------|
| 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

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Effect level (DNEL/DMEL) | Type                                  | Value                 | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 871 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 77 mg/kg bw/day       |        |

white mineral oil (petroleum)

| Effect level (DNEL/DMEL) | Type                                  | Value                    | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 164.56 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 217.05 mg/kg bw/day      |        |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Effect level (DNEL/DMEL) | Type                                  | Value                  | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 1.27 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 1.8 mg/kg bw/day       |        |

##### DNEL/DMEL - General population

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Effect level (DNEL/DMEL) | Type                                  | Value                 | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 185 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 46 mg/kg bw/day       |        |
|                          | Long-term systemic effects oral       | 46 mg/kg bw/day       |        |

white mineral oil (petroleum)

| Effect level (DNEL/DMEL) | Type                                  | Value                   | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 34.78 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 93.02 mg/kg bw/day      |        |
|                          | Long-term systemic effects oral       | 25 mg/kg bw/day         |        |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Effect level (DNEL/DMEL) | Type                                  | Value                  | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL                     | Long-term systemic effects inhalation | 0.31 mg/m <sup>3</sup> |        |
|                          | Long-term systemic effects dermal     | 0.9 mg/kg bw/day       |        |
|                          | Long-term systemic effects oral       | 0.18 mg/kg bw/day      |        |

##### PNEC

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reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Compartment                         | Value                  | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water                         | 0.002 mg/l             |        |
| Marine water                        | < 0.001 mg/l           |        |
| Fresh water (intermittent releases) | 0.009 mg/l             |        |
| STP                                 | 1 mg/l                 |        |
| Fresh water sediment                | 1.05 mg/kg sediment dw |        |
| Marine water sediment               | 0.11 mg/kg sediment dw |        |
| Soil                                | 0.21 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

Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Use spark-/explosionproof appliances and lighting system. 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 strict hygiene. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

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

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials      | Measured breakthrough time | Thickness | Protection index | Remark |
|----------------|----------------------------|-----------|------------------|--------|
| nitrile rubber | > 480 minutes              | 0.35 mm   | Class 6          |        |

#### c) Eye protection:

Face shield (EN 166).

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

|                           |                                       |
|---------------------------|---------------------------------------|
| Physical form             | Liquid                                |
| Colour                    | Green                                 |
| Odour                     | Characteristic odour                  |
| Odour threshold           | No data available in the literature   |
| Melting point             | No data available in the literature   |
| Boiling point             | 130 °C - 300 °C                       |
| Flammability              | Flammable liquid and vapour.          |
| Explosion limits          | 0.6 - 7 vol %                         |
| Flash point               | 24 °C                                 |
| Auto-ignition temperature | 200 °C                                |
| Decomposition temperature | No data available in the literature   |
| pH                        | Not applicable (non-soluble in water) |
| Kinematic viscosity       | 1 mm <sup>2</sup> /s ; 40 °C          |
| Dynamic viscosity         | 1 mPa.s ; 20 °C                       |
| Solubility                | Water ; insoluble                     |
| Log Kow                   | Not applicable (mixture)              |
| Vapour pressure           | 4.6 hPa ; 20 °C                       |
| Absolute density          | 790 kg/m <sup>3</sup> ; 20 °C         |
| Relative density          | 0.79 ; 20 °C                          |
| Relative vapour density   | No data available in the literature   |
| Particle size             | Not applicable (liquid)               |

### 9.2. Other information

|                  |                      |
|------------------|----------------------|
| Evaporation rate | 0.35 ; Butyl acetate |
|------------------|----------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May be ignited by sparks.

### 10.2. Chemical stability

Stable under normal conditions.

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BIG number: 50902

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## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

### Precautionary measures

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

## 10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

## 10.6. Hazardous decomposition products

Upon combustion: CO and CO<sub>2</sub> 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

##### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, 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)    | Read-across         |        |
| Dermal               | LD50      | Equivalent to OECD 402 | > 3160 mg/kg bw  | 24 h          | Rabbit (male / female) | Experimental value  |        |
| Inhalation (vapours) | LC50      | Equivalent to OECD 403 | 6.1 mg/l         | 4 h           | Rat (male / female)    | Experimental value  |        |

white mineral oil (petroleum)

| Route of exposure    | Parameter | Method                 | Value           | Exposure time | Species                | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral                 | LD50      | Equivalent to OECD 401 | > 5000 mg/kg bw |               | Rat (male / female)    | Read-across         |        |
| Dermal               | LD50      | Equivalent to OECD 402 | > 2000 mg/kg bw | 24 h          | Rabbit (male / female) | Read-across         |        |
| Inhalation (aerosol) | LC50      | Equivalent to OECD 403 | > 5 mg/l        | 4 h           | Rat (male / female)    | Read-across         |        |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Route of exposure | Parameter | Method                 | Value           | Exposure time | Species             | Value determination | Remark |
|-------------------|-----------|------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral              | LD50      | Equivalent to OECD 423 | 3230 mg/kg bw   |               | Rat (male / female) | Experimental value  |        |
| Dermal            | LD50      | Equivalent to OECD 402 | > 3170 mg/kg bw | 24 h          | Rat (male / female) | Experimental value  |        |
| Inhalation        |           |                        |                 |               |                     | Data waiving        |        |

Because of the conditions of use, acute inhalation toxicity is not relevant

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, 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 |
| Skin              | Not irritating | Equivalent to OECD 404 | 4 h           | 24; 48; 72 hours | Rabbit  | Read-across         |                  |

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## white mineral oil (petroleum)

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

## reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Route of exposure | Result         | Method       | Exposure time | Time point       | Species | Value determination | Remark           |
|-------------------|----------------|--------------|---------------|------------------|---------|---------------------|------------------|
| Eye               | Not irritating | EPA OPP 81-4 |               | 24; 48; 72 hours | Rabbit  | Experimental value  | Single treatment |
| Skin              | Not irritating | EPA OPP 81-5 | 24 h          | 24; 48; 72 hours | Rabbit  | Experimental value  |                  |

### Conclusion

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

### Respiratory or skin sensitisation

#### SURFACE RENEWER RV

No (test)data on the mixture available  
 Judgement is based on the relevant ingredients  
hydrocarbons, C9-C10, 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 (female) | Read-across         |        |

## white mineral oil (petroleum)

| 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         |        |

## reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Route of exposure | Result      | Method   | Exposure time | Observation time point | Species                    | Value determination | Remark |
|-------------------|-------------|----------|---------------|------------------------|----------------------------|---------------------|--------|
| Skin              | Sensitizing | OECD 406 |               |                        | Guinea pig (male / female) | Experimental value  |        |

### Conclusion

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

### Specific target organ toxicity

#### SURFACE RENEWER RV

No (test)data on the mixture available  
 Classification is based on the relevant ingredients  
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure    | Parameter | Method                 | Value              | Organ/Effect                | Exposure time                      | Species             | Value determination | Remark |
|----------------------|-----------|------------------------|--------------------|-----------------------------|------------------------------------|---------------------|---------------------|--------|
| Oral (stomach tube)  | NOAEL     | Equivalent to OECD 408 | > 500 mg/kg bw/day | No adverse systemic effects | 13 weeks (daily)                   | Rat (male / female) | Read-across         |        |
| Dermal               |           |                        |                    |                             |                                    |                     | Data waiving        |        |
| Inhalation (vapours) | NOAEC     | Equivalent to OECD 413 | > 10400 mg/m³ air  | No effect                   | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across         |        |
| Inhalation (vapours) |           |                        | STOT SE cat.3      | Drowsiness, dizziness       |                                    |                     | Literature study    |        |

# SURFACE RENEWER RV

## white mineral oil (petroleum)

| Route of exposure    | Parameter              | Method                 | Value                 | Organ/Effect                | Exposure time                     | Species             | Value determination | Remark |
|----------------------|------------------------|------------------------|-----------------------|-----------------------------|-----------------------------------|---------------------|---------------------|--------|
| Oral (diet)          | NOAEL                  | OECD 453               | ≥ 1200 mg/kg bw/day   | No effect                   | 24 month(s)                       | Rat (male / female) | Read-across         |        |
| Dermal               | NOAEL systemic effects | OECD 411               | ≥ 2000 mg/kg bw/day   | No adverse systemic effects | 13 weeks (daily)                  | Rat (male / female) | Read-across         |        |
| Dermal               | NOAEL local effects    | OECD 411               | < 125 mg/kg bw/day    | Skin (no effect)            | 13 weeks (daily)                  | Rat (male / female) | Read-across         |        |
| Inhalation (aerosol) | NOEL                   | Equivalent to OECD 412 | 50 mg/m <sup>3</sup>  | No effect                   | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across         |        |
| Inhalation (aerosol) | LOEL                   | Equivalent to OECD 412 | 210 mg/m <sup>3</sup> | Lungs (weight changes)      | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across         |        |

## reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Route of exposure | Parameter | Method                   | Value                             | Organ/Effect | Exposure time | Species             | Value determination | Remark |
|-------------------|-----------|--------------------------|-----------------------------------|--------------|---------------|---------------------|---------------------|--------|
| Oral (diet)       | NOAEL     | Subchronic toxicity test | 36 mg/kg bw/day - 41 mg/kg bw/day | No effect    |               | Rat (male / female) | Experimental value  |        |

### Conclusion

May cause drowsiness or dizziness.  
Not classified for subchronic toxicity

### Mutagenicity (in vitro)

#### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, 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) | No effect | Read-across         |        |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Human lymphocytes        | No effect | Read-across         |        |

## white mineral oil (petroleum)

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

## reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Result                                                                    | Method   | Test substrate                         | Effect | Value determination | Remark |
|---------------------------------------------------------------------------|----------|----------------------------------------|--------|---------------------|--------|
| Positive with metabolic activation, positive without metabolic activation | OECD 473 | Chinese hamster lung fibroblasts (V79) |        | Experimental value  |        |
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts (V79) |        | Experimental value  |        |

### Mutagenicity (in vivo)

#### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result                          | Method                 | Exposure time     | Test substrate      | Organ/Effect | Value determination | Remark |
|---------------------------------|------------------------|-------------------|---------------------|--------------|---------------------|--------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 478 | 5 days (6h / day) | Rat (male / female) | No effect    | Read-across         |        |

Reason for revision: 1; 2; 4; 6; 7; 8; 9; 10; 11; 12; 15; 16

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BIG number: 50902

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# SURFACE RENEWER RV

white mineral oil (petroleum)

| Result                     | Method   | Exposure time | Test substrate        | Organ/Effect | Value determination | Remark                           |
|----------------------------|----------|---------------|-----------------------|--------------|---------------------|----------------------------------|
| Negative (Intraperitoneal) | OECD 474 |               | Mouse (male / female) | No effect    | Read-across         | Single intraperitoneal injection |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Result                         | Method   | Exposure time | Test substrate | Organ/Effect | Value determination | Remark           |
|--------------------------------|----------|---------------|----------------|--------------|---------------------|------------------|
| Negative (Oral (stomach tube)) | OECD 474 |               | Mouse (male)   | No effect    | Experimental value  | Single treatment |

## Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method                      | Value | Organ/Effect           | Exposure time | Species      | Value determination | Remark |
|-------------------|-----------|-----------------------------|-------|------------------------|---------------|--------------|---------------------|--------|
| Dermal            | NOAEL     | Carcinogenic toxicity study | 50 %  | Skin (tumor formation) | 52 week(s)    | Mouse (male) | Experimental value  |        |

white mineral oil (petroleum)

| Route of exposure    | Parameter  | Method                      | Value                 | Organ/Effect           | Exposure time                      | Species             | Value determination | Remark |
|----------------------|------------|-----------------------------|-----------------------|------------------------|------------------------------------|---------------------|---------------------|--------|
| Inhalation (aerosol) | Dose level | Carcinogenic toxicity study | 100 mg/m <sup>3</sup> | No carcinogenic effect | 68 weeks (6h / day, 7 days / week) | Mouse (male)        | Read-across         |        |
| Dermal               | NOEL       | OECD 453                    | ≥ 75 µl/week          | No carcinogenic effect | 104 weeks (3 times / week)         | Mouse (male)        | Read-across         |        |
| Oral (diet)          | NOAEL      | OECD 453                    | ≥ 1200 mg/kg bw/day   | No carcinogenic effect | 24 month(s)                        | Rat (male / female) | Read-across         |        |

## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### SURFACE RENEWER RV

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Category                                      | Parameter | Method                 | Value                        | Exposure time      | Species | Effect    | Value determination | Remark |
|-----------------------------------------------|-----------|------------------------|------------------------------|--------------------|---------|-----------|---------------------|--------|
| Developmental toxicity (Inhalation (vapours)) | NOAEL     | Equivalent to OECD 414 | ≥ 5220 mg/m <sup>3</sup> air | 10 days (6h / day) | Rat     | No effect | Experimental value  |        |
| Maternal toxicity (Inhalation (vapours))      | NOAEL     | Equivalent to OECD 414 | > 5220 mg/m <sup>3</sup> air | 10 days (6h / day) | Rat     | No effect | Read-across         |        |

white mineral oil (petroleum)

| Category                                     | Parameter | Method                 | Value               | Exposure time              | Species             | Effect    | Value determination | Remark |
|----------------------------------------------|-----------|------------------------|---------------------|----------------------------|---------------------|-----------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL     | Equivalent to OECD 414 | > 5000 mg/kg bw/day | 14 days (gestation, daily) | Rat                 | No effect | Read-across         |        |
| Maternal toxicity (Oral (stomach tube))      | NOAEL     | Equivalent to OECD 414 | > 5000 mg/kg bw/day | 14 days (gestation, daily) | Rat                 | No effect | Read-across         |        |
| Effects on fertility (Dermal)                | NOAEL     | Equivalent to OECD 415 | ≥ 2000 mg/kg bw/day | ≥ 13 weeks (5 days / week) | Rat (male / female) | No effect | Read-across         |        |

Reason for revision: 1; 2; 4; 6; 7; 8; 9; 10; 11; 12; 15; 16

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# SURFACE RENEWER RV

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

| Category                                | Parameter | Method   | Value                               | Exposure time              | Species             | Effect                                      | Value determination | Remark |
|-----------------------------------------|-----------|----------|-------------------------------------|----------------------------|---------------------|---------------------------------------------|---------------------|--------|
| Maternal toxicity (Oral (stomach tube)) | NOAEL     | OECD 414 | 150 mg/kg bw/day                    | 15 days (gestation, daily) | Rat                 | No effect                                   | Experimental value  |        |
| Effects on fertility (Oral (diet))      | NOAEL     | OECD 443 | 109 mg/kg bw/day - 126 mg/kg bw/day | 11 week(s) - 18 week(s)    | Rat (male / female) | No effect                                   | Experimental value  |        |
| Effects on fertility                    |           |          | category 2                          |                            |                     | Reproductive organs (reduced implantations) | Literature study    |        |

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Aspiration hazard

### SURFACE RENEWER RV

Classification is based on the relevant ingredients

May be fatal if swallowed and enters airways.

## Toxicity other effects

### SURFACE RENEWER RV

No (test)data on the mixture available

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

## Chronic effects from short and long-term exposure

### SURFACE RENEWER RV

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### SURFACE RENEWER RV

No (test)data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

|                                         | Parameter | Method   | Value             | Duration  | Species                         | Test design        | Fresh/salt water | Value determination                       |
|-----------------------------------------|-----------|----------|-------------------|-----------|---------------------------------|--------------------|------------------|-------------------------------------------|
| Acute toxicity fishes                   | LC50      | OECD 203 | 10 mg/l - 30 mg/l | 96 h      | Oncorhynchus mykiss             | Semi-static system | Fresh water      | Experimental value; Nominal concentration |
| Acute toxicity crustacea                | EL50      | OECD 202 | 22 mg/l - 46 mg/l | 48 h      | Daphnia magna                   | Static system      | Fresh water      | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | NOEL      | OECD 201 | < 1 mg/l          | 72 h      | Pseudokirchneriella subcapitata | Static system      | Fresh water      | Experimental value; Growth rate           |
| Long-term toxicity fish                 | NOEL      |          | 0.182 mg/l        | 28 day(s) | Oncorhynchus mykiss             |                    | Fresh water      | QSAR; Nominal concentration               |
| Long-term toxicity aquatic crustacea    | NOELR     |          | 0.317 mg/l        | 21 day(s) | Daphnia magna                   |                    | Fresh water      | QSAR; Nominal concentration               |

Reason for revision: 1; 2; 4; 6; 7; 8; 9; 10; 11; 12; 15; 16

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# SURFACE RENEWER RV

white mineral oil (petroleum)

|                                         | Parameter | Method                 | Value          | Duration  | Species                         | Test design        | Fresh/salt water | Value determination                       |
|-----------------------------------------|-----------|------------------------|----------------|-----------|---------------------------------|--------------------|------------------|-------------------------------------------|
| Acute toxicity fishes                   | LL50      | OECD 203               | > 100 mg/l WAF | 96 h      | Oncorhynchus mykiss             | Static system      | Fresh water      | Experimental value; Nominal concentration |
| Acute toxicity crustacea                | LL50      | OECD 202               | > 100 mg/l WAF | 48 h      | Daphnia magna                   | Static system      | Fresh water      | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | NOEL      | OECD 201               | ≥ 100 mg/l WAF | 72 h      | Pseudokirchneriella subcapitata | Static system      | Fresh water      | Weight of evidence; Growth rate           |
| Long-term toxicity fish                 | NOEL      |                        | ≥ 1000 mg/l    | 28 day(s) | Oncorhynchus mykiss             |                    | Fresh water      | QSAR; Nominal concentration               |
| Long-term toxicity aquatic crustacea    | NOEL      | Equivalent to OECD 211 | 10 mg/l WAF    | 21 day(s) | Daphnia magna                   | Semi-static system | Fresh water      | Read-across; GLP                          |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

|                                         | Parameter | Method                 | Value      | Duration  | Species                 | Test design        | Fresh/salt water | Value determination                       |
|-----------------------------------------|-----------|------------------------|------------|-----------|-------------------------|--------------------|------------------|-------------------------------------------|
| Acute toxicity fishes                   | LC50      | OECD 203               | 0.9 mg/l   | 96 h      | Danio rerio             | Semi-static system | Fresh water      | Experimental value; GLP                   |
| Toxicity algae and other aquatic plants | EC50      | OECD 201               | 1.68 mg/l  | 72 h      | Desmodesmus subspicatus | Static system      | Fresh water      | Experimental value; Nominal concentration |
|                                         | NOEC      | OECD 201               | 0.22 mg/l  | 72 h      | Desmodesmus subspicatus | Static system      | Fresh water      | Experimental value; Nominal concentration |
| Long-term toxicity aquatic crustacea    | NOEC      | OECD 211               | 1 mg/l     | 21 day(s) | Daphnia magna           | Semi-static system | Fresh water      | Experimental value; Reproduction          |
| Toxicity aquatic micro-organisms        | IC50      | Equivalent to OECD 209 | ≥ 100 mg/l | 3 h       | Activated sludge        | Static system      | Fresh water      | Experimental value; Nominal concentration |

## Conclusion

Harmful to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

### Biodegradation water

| Method    | Value                    | Duration  | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 89 %; Oxygen consumption | 28 day(s) | Experimental value  |

### Phototransformation air (DT50 air)

| Method       | Value    | Conc. OH-radicals      | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 18.679 h | 1.5E6 /cm <sup>3</sup> | Calculated value    |

white mineral oil (petroleum)

### Biodegradation water

| Method    | Value     | Duration  | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301F | 31 %; GLP | 28 day(s) | Read-across         |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

### Biodegradation water

| Method    | Value | Duration  | Value determination |
|-----------|-------|-----------|---------------------|
| OECD 301E | 38 %  | 28 day(s) | Experimental value  |

### Half-life water (t1/2 water)

| Method   | Value   | Primary degradation/mineralisation | Value determination |
|----------|---------|------------------------------------|---------------------|
| OECD 111 | 100.3 h | Primary degradation                | Experimental value  |

## Conclusion

### Water

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

SURFACE RENEWER RV

### Log Kow

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

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# SURFACE RENEWER RV

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

## BCF fishes

| Parameter | Method       | Value                   | Duration | Species | Value determination |
|-----------|--------------|-------------------------|----------|---------|---------------------|
| BCF       | BCFBAF v3.01 | 6.91 l/kg - 1582.4 l/kg |          | Pisces  | QSAR                |

## Log Kow

| Method | Remark | Value       | Temperature | Value determination |
|--------|--------|-------------|-------------|---------------------|
|        |        | 1.99 - 5.25 |             | QSAR                |

white mineral oil (petroleum)

## BCF other aquatic organisms

| Parameter | Method       | Value                   | Duration | Species | Value determination |
|-----------|--------------|-------------------------|----------|---------|---------------------|
| BCF       | BCFBAF v3.01 | 1216 l/kg; Fresh weight |          |         | Estimated value     |

## Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
|        |        | 5.2   |             | Experimental value  |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

## BCF fishes

| Parameter | Method | Value                | Duration  | Species         | Value determination |
|-----------|--------|----------------------|-----------|-----------------|---------------------|
| BCF       |        | < 31.4; Fresh weight | 8 week(s) | Cyprinus carpio | Experimental value  |

## Log Kow

| Method   | Remark | Value       | Temperature | Value determination |
|----------|--------|-------------|-------------|---------------------|
| OECD 107 |        | 2.37 - 2.77 | 25 °C       | Experimental value  |

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

### (log) Koc

| Parameter | Method | Value       | Value determination |
|-----------|--------|-------------|---------------------|
| log Koc   |        | 4.16 - 5.88 | Weight of evidence  |

### Percent distribution

| Method           | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 89.8 %       | 0 %            | 6.2 %             | 1.8 %         | 2.2 %          | Calculated value    |

white mineral oil (petroleum)

### (log) Koc

| Parameter | Method            | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc   | SRC PCKOCWIN v2.0 | 2.6   | Calculated value    |

### Percent distribution

| Method                   | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|--------------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Fugacity Model Level III | 32 %         |                | 0.87 %            | 1.3 %         | 66 %           | Calculated value    |

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

### (log) Koc

| Parameter | Method            | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc   | SRC PCKOCWIN v2.0 | 3.67  | 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. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

### PMT conclusion

Does not contain component(s) that meet(s) the criteria of PMT and/or vPvM as listed in Annex I of Regulation (EC) No 1272/2008

## SURFACE RENEWER RV

### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

# SURFACE RENEWER RV

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

white mineral oil (petroleum)

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## Groundwater

Groundwater pollutant

reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## 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 29\* (separately collected fractions (except 15 01): detergents containing hazardous substances). 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. 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 or ID 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 | 30 |
| Class                        | 3  |
| Classification code          | F1 |

#### 14.4. Packing group

|               |     |
|---------------|-----|
| Packing group | III |
| Labels        | 3   |

#### 14.5. Environmental hazards

|                                          |    |
|------------------------------------------|----|
| Environmentally hazardous substance mark | no |
|------------------------------------------|----|

#### 14.6. Special precautions for user

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions |                                                                                                                                         |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

### Rail (RID)

#### 14.1. UN number or ID 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 | 30 |
| Class                        | 3  |
| Classification code          | F1 |

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# SURFACE RENEWER RV

## 14.4. Packing group

|               |     |
|---------------|-----|
| Packing group | III |
| Labels        | 3   |

## 14.5. Environmental hazards

|                                          |    |
|------------------------------------------|----|
| Environmentally hazardous substance mark | no |
|------------------------------------------|----|

## 14.6. Special precautions for user

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions |                                                                                                                                         |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

## Inland waterways (ADN)

### 14.1. UN number or ID number

|                     |      |
|---------------------|------|
| UN number/ID 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 | III |
| Labels        | 3   |

## 14.5. Environmental hazards

|                                          |    |
|------------------------------------------|----|
| Environmentally hazardous substance mark | no |
|------------------------------------------|----|

## 14.6. Special precautions for user

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions |                                                                                                                                         |
| Limited quantities | Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass). |

## Sea (IMDG/IMSBC)

### 14.1. UN number or ID 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 | III |
| Labels        | 3   |

## 14.5. Environmental hazards

|                                          |    |
|------------------------------------------|----|
| Marine pollutant                         | -  |
| Environmentally hazardous substance mark | no |

## 14.6. Special precautions for user

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions | 223                                                                                                                                     |
| Limited quantities | Combination packagings: not more than 5 liters 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, based on available data |
|--------------------------|-----------------------------------------|

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

### 14.1. UN number or ID number

|                     |      |
|---------------------|------|
| UN number/ID 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 | III |
| Labels        | 3   |

## 14.5. Environmental hazards

|                                          |    |
|------------------------------------------|----|
| Environmentally hazardous substance mark | no |
|------------------------------------------|----|

## 14.6. Special precautions for user

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

### Passenger and cargo transport

|                                                        |      |
|--------------------------------------------------------|------|
| Limited quantities: maximum net quantity per packaging | 10 L |
|--------------------------------------------------------|------|

# SURFACE RENEWER RV

## 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 |
|-------------|--------|
| 67.963 %    |        |
| 537.855 g/l |        |

Directive 2012/18/EU (Seveso III)

Threshold values under special circumstances

| Substance or category | Special circumstances                                                                                          | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|-----------------------|----------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------|-------------------------------------------------------------------------|
| P5a FLAMMABLE LIQUIDS | Maintained at a temperature above the boiling point                                                            | 10                | 50                | None  | Flammability                                                            |
| P5b FLAMMABLE LIQUIDS | Particular processing conditions, such as high pressure or high temperature, may create major-accident hazards | 50                | 200               | None  | Flammability                                                            |

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: |
|-----------------------|-------------------|-------------------|-------|-------------------------------------------------------------------------|
| P5c FLAMMABLE LIQUIDS | 5000              | 50000             | None  | Flammability                                                            |

Ingredients according to Regulation (EC) No 648/2004 and amendments

≥30% aliphatic hydrocarbons, perfumes, linalool, limonene

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

REACH Annex XVII - Restriction

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

|                                                                                                                                                                                                                                         | Designation of the substance, of the group of substances or of the mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conditions of restriction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics<br>· white mineral oil (petroleum)<br>· reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 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. |
| · hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics                                                                                                                                                                  | 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                                                                                                                                                                                                                           | 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>— "whoopie" cushions,<br>— silly string aerosols,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Reason for revision: 1; 2; 4; 6; 7; 8; 9; 10; 11; 12; 15; 16

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# SURFACE RENEWER RV

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| whether they appear in Part 3 of Annex VI to that Regulation or not. | <ul style="list-style-type: none"> <li>— imitation excrement,</li> <li>— horns for parties,</li> <li>— decorative flakes and foams,</li> <li>— artificial cobwebs,</li> <li>— stink bombs.</li> </ul> <p>2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:</p> <p>“For professional users only”.</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.</p> <p>4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</p> |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## National legislation Belgium

### SURFACE RENEWER RV

No data available

#### white mineral oil (petroleum)

|                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agents cancérigènes, mutagènes et reprotoxiques et aux agents possédant des propriétés perturbant le système endocrinien (Code du bien-être au travail, Livre VI, titre 2) | huiles minérales; VI.2.2.; Liste des procédés au cours desquels une substance ou un mélange se dégage; Travaux entraînant une exposition cutanée à des huiles minérales qui ont été auparavant utilisées dans des moteurs à combustion interne pour lubrifier et refroidir les pièces mobiles du moteur. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## National legislation The Netherlands

### SURFACE RENEWER RV

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

## National legislation France

### SURFACE RENEWER RV

No data available

## National legislation Germany

### SURFACE RENEWER RV

|                                                                                                                          |                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lagerklasse (TRGS510)                                                                                                    | 3: Entzündbare Flüssigkeiten                                                                                                                                            |
| WGK                                                                                                                      | 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017                                                                            |
| hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics                                                     |                                                                                                                                                                         |
| TA-Luft                                                                                                                  | 5.2.5/I                                                                                                                                                                 |
| white mineral oil (petroleum)                                                                                            |                                                                                                                                                                         |
| TA-Luft                                                                                                                  | 5.2.5/I                                                                                                                                                                 |
| TRGS900 - Risiko der Fruchtschädigung                                                                                    | Weißes Mineralöl (Erdöl); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
| reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate |                                                                                                                                                                         |
| TA-Luft                                                                                                                  | 5.2.5                                                                                                                                                                   |

## National legislation Austria

### SURFACE RENEWER RV

No data available

## National legislation United Kingdom

### SURFACE RENEWER RV

No data available

## National legislation Ireland

### SURFACE RENEWER RV

No data available

## Other relevant data

### SURFACE RENEWER RV

No data available

#### white mineral oil (petroleum)

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| TLV - Carcinogen | Mineral oil, excluding metal working fluids: Pure, highly and severely refined; A4 |
|------------------|------------------------------------------------------------------------------------|

## 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:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.

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# SURFACE RENEWER RV

H410 Very 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.  
EUH208 Contains a sensitising substance. May produce an allergic reaction.

|              |                                                                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (*)          | 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                                                                                                                                                                       |
| HS           | Harmonized System of Nomenclature, a standardized international system for classifying goods under the Harmonized System Convention, as drawn up by the World Customs Organization Secretariat |
| 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                                                                                                                                                         |

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.