SAFETY DATA SHEET
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

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

1.1. Product identifier

Product name Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Chemical name Renewable hydrocarbons (diesel type fraction)

Product number ID 13898

UFI UFI: SDGM-514C-9915-FWKJ

EU REACH registration number 01-2119450077-42-0000

EU REACH registration notes 01-2119450077-42-0000 / -0001 / -0002

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

Identified uses Formulation & (re)packing of substances and mixtures (ES 02)
Distribution of substance (ES 04)
Use as an intermediate (ES 05)
Use as a fuel (ES 06, 14, 23)

1.3. Details of the supplier of the safety data sheet

Supplier Neste Oyj
Keilaranta 21, Espoo, P.O.B. 95, FIN-00095 NESTE, FINLAND
Tel. +358 10 45811
SDS@neste.com (chemical safety)

1.4. Emergency telephone number

Emergency telephone +61 2 9186 1132, Chemwatch: International Emergency Response Phone Number

National emergency telephone +358 800 147 111, +358 9 471 977, Poison Information Centre number

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Asp. Tox. 1 - H304

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms

Signal word Danger
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/container in accordance with national regulations.

**Supplemental label information**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Contains**

Renewable hydrocarbons (diesel type fraction)

**2.3. Other hazards**

Combustible liquid. Risk of soil and ground water contamination.

This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<table>
<thead>
<tr>
<th>Renewable hydrocarbons (diesel type fraction)</th>
<th>ca. 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

Asp. Tox. 1 - H304

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Other information**

Mixture of renewable raw material fuel and additives., Contains middle distillate-range iso- and n-paraffinic hydrocarbons., Total aromatics at maximum 1,0 Weight %., Renewable hydrocarbons (diesel type fraction);, REACH Nr: 01-2119450077-42-0000 / -0001 / -0002., Identity outside the EU (CAS number and name of the substance);, Alkanes, C10-20-branched and linear, CAS 928771-01-1.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. If spray/mist has been inhaled, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

**Ingestion**

Do not induce vomiting. Get medical attention immediately.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

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

**General information**

Repeated exposure may cause skin dryness or cracking. Spray/mists may cause respiratory tract irritation. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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

Notes for the doctor

Treat symptomatically.
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media
Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters

5.2. Special hazards arising from the substance or mixture

Specific hazards
Combustible liquid. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products
Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting
Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear adequate protective equipment at all operations.

For emergency responders
Prevent unauthorized access. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge.

6.2. Environmental precautions

Environmental precautions
Avoid release to the environment. Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). Risk of soil and ground water contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Immediately start clean-up of the liquid and contaminated soil. Contain spillage with sand, earth or other suitable non-combustible material. Pay attention to the fire and health hazards caused by the product.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours and contact with skin and eyes. Use personal protective equipment and/or local ventilation when needed. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Flammable liquid storage. Store in accordance with local regulations. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Only store in correctly labelled containers. Use containers made of the following materials: Carbon steel. Stainless steel.
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

7.3. Specific end use(s)
Specific end use(s) Not known.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments The individual limit values can be applied for the hydrocarbons. Diesel fuel as total hydrocarbons; ACGIH TLV®-TWA (8h) 100 mg/m³ (IFV).

PNEC Not available.

Renewable hydrocarbons (diesel type fraction)

DNEL
Workers - Inhalation; Long term systemic effects: 147 mg/m³
Workers - Dermal; Long term systemic effects: 42 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 94 mg/m³
Consumer - Dermal; Long term systemic effects: 18 mg/kg/day

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Use personal protective equipment and/or local ventilation when needed. Handle in accordance with good industrial hygiene and safety practice. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

Eye/face protection Spectacles.

Hand protection Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). The breakthrough time for any glove material may be different for different glove manufacturers. Protective gloves according to standard EN 374. Change protective gloves regularly.

Other skin and body protection Protective clothing when needed. Wear anti-static protective clothing if there is a risk of ignition from static electricity.

Respiratory protection Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Filter must be changed often enough. Gas and combination filter cartridges suitable for intended use should be used. At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus).

Environmental exposure controls Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Clear.

Odour Mild.

Odour threshold -

pH -

Melting point Pour point < -20°C @ 1013 hPa (BS4633, EC A1)

Initial boiling point and range 180-320°C (EN ISO 3405)

Flash point > 61°C (EN ISO 2719, EC A9)
**Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel**

**Upper/lower flammability or explosive limits**
-  
**Vapour pressure**
0,087 kPa @ 25°C (EC A4)  
**Vapour density**
-  
**Relative density**
0,77 - 0,79 @ 15/4°C (EN ISO 12185, EC A3)  
**Solubility(ies)**
Insoluble in water. ~ 0,075 mg/l water @ 25°C (calculated) Soluble in the following materials: Methanol. Hydrocarbons.  
**Partition coefficient**
log Kow: > 6,5 (EC A8)  
**Auto-ignition temperature**
204°C (EC A15)  
**Decomposition Temperature**
-  
**Viscosity**
Kinematic viscosity 4.0 mm²/s @ 20°C 2.6 mm²/s @ 40°C (OECD 114) Dynamic viscosity ≤ 5 mPa s @ 20°C  
**Explosive properties**
Not considered to be explosive. (EC A14)  
**Oxidising properties**
Does not meet the criteria for classification as oxidising.  

9.2. Other information

Other information
Not known.  

**SECTION 10: Stability and reactivity**

10.1. Reactivity

Reactivity
There are no known reactivity hazards associated with this product.  

10.2. Chemical stability

Stability
Stable at normal ambient temperatures and when used as recommended.  

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
No potentially hazardous reactions known.  

10.4. Conditions to avoid

Conditions to avoid
Keep away from heat, sparks and open flame.  

10.5. Incompatible materials

Materials to avoid
Oxidising agents.  

10.6. Hazardous decomposition products

Hazardous decomposition products
Does not decompose when used and stored as recommended.  

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Toxicological effects
Based on available data the classification criteria are not met.  

Skin corrosion/irritation
Based on available data the classification criteria are not met. (EC B4) Repeated exposure may cause skin dryness or cracking. The product irritates mucous membranes and may cause abdominal discomfort if swallowed. May cause respiratory system irritation.  

Serious eye damage/irritation
Neste Renewable Diesel; Neste Renewable Diesel 100%; Neste MY Renewable Diesel

**Serious eye damage/irritation**
Based on available data the classification criteria are not met. (EC B5)

**Skin sensitisation**
Based on available data the classification criteria are not met. (EC B6)

**Germ cell mutagenicity**
Genotoxicity - in vitro
Based on available data the classification criteria are not met. (EC B10, B13/14 & B17).

**Carcinogenicity**
Based on available data the classification criteria are not met.

**Reproductive toxicity**
Based on available data the classification criteria are not met. (OECD 416)

**Specific target organ toxicity - single exposure**
STOT - single exposure
Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**
STOT - repeated exposure
Based on available data the classification criteria are not met. (OECD 408)

**Aspiration hazard**
May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**General information**
This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

Toxicological information on ingredients.

**Renewable hydrocarbons (diesel type fraction)**

**Acute toxicity - oral**
Notes (oral LD₅₀)
LD₅₀ >2000 mg/kg, Oral, Rat (EC B1 tris)

**Acute toxicity - dermal**
Notes (dermal LD₅₀)
LD₅₀ > 2000 mg/kg, Dermal, Rat (EC B3)

### SECTION 12: Ecological Information

**12.1. Toxicity**
Based on available data the classification criteria are not met.

Ecological information on ingredients.

**Renewable hydrocarbons (diesel type fraction)**

**Acute aquatic toxicity**

**Acute toxicity - fish**
LL₅₀, 96 hours: > 1000 mg/l,
WAF (OECD 203)

**Acute toxicity - aquatic invertebrates**
EL₅₀, 48 hours: > 100 mg/l,
WAF (OECD 202)

**Acute toxicity - aquatic plants**
EL₅₀, 72 hours: > 100 mg/l, Algae
WAF (OECD 201)

**Acute toxicity - microorganisms**
EC₅₀, 30-180 minutes: > 1000 mg/l, Micro-organisms (wastewater sludge)
(OECD 209)
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

**Chronic aquatic toxicity**

**Chronic toxicity - aquatic invertebrates**
- NOEC, 21 days: 1 mg/l,
- LOEC, 21 days: 3.2 mg/l,
- WAF (OECD 211)

**Sediment organisms**
- NOEC, 10 days: 373 mg/kg,
- LOEC, 10 days: 1165 mg/kg,
- LC₅₀, 10 days: 1200 mg/kg,


**12.2. Persistence and degradability**

**Stability (hydrolysis)**
- No significant reaction in water.

**Biodegradation**
- Rapidly degradable
  (OECD 301B).

**Ecological information on ingredients.**

**Renewable hydrocarbons (diesel type fraction)**

**Biodegradation**
- Rapidly degradable
  (OECD 301B).

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**
- Possibly bioaccumulative.

**Partition coefficient**
- log Kow: > 6.5 (EC A8)

**12.4. Mobility in soil**

**Mobility**
- Evaporates slowly. The product has poor water-solubility. The product contains substances which are bound to particulate matter and are retained in soil. Log Koc > 5.6 (EC C19).

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment**
- This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects**
- Not known.

**Endocrine-disrupting properties**
- This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal methods**
- Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Product residues retained in emptied containers can be hazardous. Waste packaging should be collected for reuse or recycling.

**SECTION 14: Transport information**
Neste Renewable Diesel; Neste Renewable Diesel 100%; Neste MY Renewable Diesel

Sea transport notes
This cargo is considered an Energy-rich fuel and effective 1 January 2019 should be carried subject to Annex I of MARPOL, see Annex 12 of MEPC.2/Circ.24. Please also refer to MEPC.1/Circ.879 - GUIDELINES FOR THE CARRIAGE OF ENERGY-RICH FUELS AND THEIR BLENDS

14.1. UN number
UN No. (ADR/RID) 1202
UN No. (IMDG) Not classified under IMDG.

14.2. UN proper shipping name
Proper shipping name UN 1202 DIESEL FUEL

14.3. Transport hazard class(es)
ADR/RID class 3
ADN subsidiary risk F (floater)

14.4. Packing group
ADR/RID packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user
Hazard Identification Number (ADR/RID) 30
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
UK REACH Registration number: UK-01-9638319484-0-XXXX.
Only Representative UK: Penman Consulting Limited 41, Aspect House, Waylands Avenue, Grove Business Park, Wantage, Oxon, OX12 9FF, United Kingdom; Telephone: 01367 718474, Email: pcltd41@penmanconsulting.com.
Location of manufacture: Neste Rotterdam Refinery, the Netherlands.
EU regulatory references for the safety data sheet:

15.2. Chemical safety assessment
A chemical safety assessment has been carried out.
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet:
- DNEL = Derived No-Effect Level
- PNEC = Predicted No-Effect Concentration
- WAF = Water Accommodated Fraction

Key literature references and sources for data:

Revision comments:
Updated, sections: 1, 2, 11, 12
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date: 02/02/2023
Supersedes date: 26/07/2022
SDS number: 5359

Hazard statements in full:
H304 May be fatal if swallowed and enters airways.
Exposure scenario
Distribution of Substance - Industrial

### Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Renewable hydrocarbons (diesel type fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU REACH registration number</td>
<td>01-2119450077-42-XXXX</td>
</tr>
<tr>
<td>Version number</td>
<td>2017</td>
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<tr>
<td>Es reference</td>
<td>04</td>
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</table>

#### 1. Title of exposure scenario

<table>
<thead>
<tr>
<th>Main title</th>
<th>Distribution of Substance - Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process scope</td>
<td>Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.</td>
</tr>
<tr>
<td>Main sector</td>
<td>SU3 Industrial uses</td>
</tr>
</tbody>
</table>

#### Environment

| Environmental release category | ERC7 Use of functional fluid at industrial site |
| SPERC | ESVOC SPERC 1.1b.v1 |

#### Worker

| Process category | PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
| PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
| PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
| PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities |
| PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| PROC15 Use as laboratory reagent. |

#### 2. Conditions of use affecting exposure (Industrial - Environment 1)

**Amounts used**

- Fraction of EU tonnage used in region: 1
- Daily amount per site: ≤ 5000 t
- Annual amount per site: ≤ 1 500 000 t

**Frequency and duration of use**

- Emission days: 300 days/year

**Other given operational conditions affecting environmental exposure**

- Emission factor - air: 0,001%
- Emission factor - water: 4E-7%
- Emission factor - soil: 0,001%

**Environmental factors not influenced by risk management measures**
Distribution of Substance - Industrial

Dilution
Local freshwater dilution factor: 10
Local marine water dilution factor: 100

Risk management measures
STP type
Aerobic biological treatment

STP details
Assumed domestic sewage treatment plant flow (m³/day):
2000.

Conditions and measures related to external treatment of waste for disposal
Waste treatment
Dispose of waste in accordance with environmental legislation.

Conditions and measures related to external recovery of waste
Recovery method
All waste product is assumed to be collected and returned for re-processing or use as a fuel.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics
Physical state
Liquid

Concentration details
Covers percentage substance in the product up to 100% (unless stated differently).

Frequency and duration of use
Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management
Potentially exposed body parts
PROC 3, PROC 15: Covers skin contact area up to 240 cm². Palm of one hand.
PROC 2, PROC 9: Covers skin contact area up to 480 cm². Palm of both hands.
PROC 8a, 8b: Covers skin contact area up to 960 cm². Both hands.

Setting
Indoor use.

Temperature
≤ 40°C

Ventilation rate
1 - 3 air changes per hour Unless otherwise stated.
Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures
Distribution of Substance - Industrial

General exposures (closed systems)
With occasional controlled exposure
(PROC 3)
No specific measures identified.

Process sampling
(PROC 3)
Wear suitable gloves tested to EN374.

Laboratory activities
(PROC 15)
Provide adequate general and local exhaust ventilation.
Wear suitable gloves tested to EN374.
Recommendation:
Handle in a fume cupboard or under extract ventilation.

Bulk transfers
Road tanker/rail car loading.
(closed systems)
(PROC 8b)
Recommendation:
Use vapour recovery units when necessary.
Wear suitable gloves tested to EN374.

Bulk transfers
Marine vessel/barge (un)loading.
(closed systems)
(PROC 8b)
Recommendation:
Wear suitable gloves tested to EN374.

Equipment cleaning and maintenance
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Storage
With occasional controlled exposure
(PROC 2)
No specific measures identified.

Drum and small package filling
(PROC 9)
Recommendation:
Wear suitable gloves tested to EN374.

3. Exposure estimation (Environment 1)

Assessment method
Used Petrorisk model.

3. Exposure estimation (Health 1)

Assessment method
Used CHESAR model.
# Exposure scenario
## Formulation & (re)packing - Industrial

<table>
<thead>
<tr>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>EU REACH registration number</strong></td>
</tr>
<tr>
<td><strong>Version number</strong></td>
</tr>
<tr>
<td><strong>Es reference</strong></td>
</tr>
</tbody>
</table>

## 1. Title of exposure scenario

| **Main title** | Formulation & (re)packing - Industrial |
| **Process scope** | Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities. |
| **Main sector** | SU3 Industrial uses |

## Environment

| **Environmental release category** | ERC2 Formulation into mixture |
| **SPERC** | ESVOC SPERC 2.2.v1 |

## Worker

| **Process category** | PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
| | PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
| | PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
| | PROC5 Mixing or blending in batch processes |
| | PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
| | PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities |
| | PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| | PROC15 Use as laboratory reagent. |

## 2. Conditions of use affecting exposure (Industrial - Environment 1)

| **Amounts used** | Fraction of EU tonnage used in region: 1 |
| Daily amount per site: ≤ 100 t |
| Annual amount per site: ≤ 1 500 000 t |
| **Frequency and duration of use** | Emission days: 300 days/year |

**Other given operational conditions affecting environmental exposure**

| **Emission factor - air** | 0,25% |
Formulation & (re)packing - Industrial

Emission factor - water  0,005%
Emission factor - soil  0.01%

Environmental factors not influenced by risk management measures

Dilution
- Local freshwater dilution factor: 10
- Local marine water dilution factor: 100

Risk management measures

STP type  Aerobic biological treatment
STP details  Assumed domestic sewage treatment plant flow (m³/day): 2000.

Conditions and measures related to external treatment of waste for disposal

Disposal method  Dispose of waste in accordance with environmental legislation.

Conditions and measures related to external recovery of waste

Recovery method  All waste product is assumed to be collected and returned for re-processing or use as a fuel.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state  Liquid
Concentration details  Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use  Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts
- PROC 1, PROC 3, PROC 15: Covers skin contact area up to 240 cm². Palm of one hand.
- PROC 2, PROC 5, PROC 9: Covers skin contact area up to 480 cm². Palm of both hands.
- PROC 8a, 8b: Covers skin contact area up to 960 cm². Both hands.

Other given operational conditions affecting workers exposure

Setting  Indoor use.
Temperature  ≤ 40 °C
Ventilation rate  1 - 3 air changes per hour Unless otherwise stated.

Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures
Formulation & (re)packing - Industrial

Mixing operations
(PROC 3)
No specific measures identified.

Batch processes at elevated temperatures
(PROC 3)
No specific measures identified.

Process sampling
(PROC 3)
Wear suitable gloves tested to EN374.

Laboratory activities
(PROC 15)
Provide adequate general and local exhaust ventilation.
Wear suitable gloves tested to EN374.
Recommendation:
Handle in a fume cupboard or under extract ventilation.

Bulk transfers
(PROC 8b)
No specific measures identified.

Mixing operations
(open systems)
With potential for aerosol generation
(PROC 5)
Recommendation:
Wear suitable gloves tested to EN374.

Transfer from/pouring from containers
Manual
(PROC 8a)
Wear suitable gloves tested to EN374.

Drum/batch transfers
(PROC 8b)
No specific measures identified.

Drum and small package filling
(PROC 9)
Provide adequate general and local exhaust ventilation.
Recommendation:
Fill containers/cans at dedicated fill points supplied with local extract ventilation.

Equipment cleaning and maintenance
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Storage
(PROC 1, PROC 2)
No specific measures identified.
### 3. Exposure estimation (Environment 1)

| Assessment method | Used Petrorisk model. |

### 3. Exposure estimation (Health 1)

| Assessment method | Used CHESAR model. |
Exposure scenario
Use as a fuel - Industrial

### Identification

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#### 1. Title of exposure scenario

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<tr>
<th>Main title</th>
<th>Use as a fuel - Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process scope</td>
<td>Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.</td>
</tr>
<tr>
<td>Main sector</td>
<td>SU3 Industrial uses</td>
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</table>

#### Environment

<table>
<thead>
<tr>
<th>Environmental release category</th>
<th>ERC7 Use of functional fluid at industrial site</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPERC</td>
<td>ESVOC SPERC 7.12a.v1</td>
</tr>
</tbody>
</table>

#### Worker

<table>
<thead>
<tr>
<th>Process category</th>
<th>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROC2</td>
<td>Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</td>
</tr>
<tr>
<td>PROC3</td>
<td>Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</td>
</tr>
<tr>
<td>PROC4</td>
<td>Chemical production where opportunity for exposure arises</td>
</tr>
<tr>
<td>PROC8a</td>
<td>Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</td>
</tr>
<tr>
<td>PROC8b</td>
<td>Transfer of substance or mixture (charging and discharging) at dedicated facilities</td>
</tr>
<tr>
<td>PROC15</td>
<td>Use as laboratory reagent.</td>
</tr>
<tr>
<td>PROC16</td>
<td>Use of fuels</td>
</tr>
</tbody>
</table>

#### 2. Conditions of use affecting exposure (Industrial - Environment 1)

##### Amounts used

- Fraction of EU tonnage used in region: 1
- Daily amount per site: ≤ 5000 t
- Annual amount per site: ≤ 10 000 t

##### Frequency and duration of use

- Emission days: 300 days/year

##### Other given operational conditions affecting environmental exposure

<table>
<thead>
<tr>
<th>Emission factor - air</th>
<th>0.025%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission factor - water</td>
<td>0.001%</td>
</tr>
<tr>
<td>Emission factor - soil</td>
<td>0%</td>
</tr>
</tbody>
</table>
Use as a fuel - Industrial

Environmental factors not influenced by risk management measures

Dilution
Local freshwater dilution factor: 10
Local marine water dilution factor: 100

Risk management measures

STP type
Aerobic biological treatment

STP details
Assumed domestic sewage treatment plant flow (m³/day):
2000.

Conditions and measures related to external treatment of waste for disposal

Disposal method
Dispose of waste in accordance with environmental legislation.

Conditions and measures related to external recovery of waste

Recovery method
Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state
Liquid

Concentration details
Covers percentage substance in the product up to 100% (unless stated differently).

Frequency and duration of use
Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts
PROC 1, PROC 3, PROC 15, PROC 16: Covers skin contact area up to 240 cm². Palm of one hand.
PROC 2, PROC 4: Covers skin contact area up to 480 cm². Palm of both hands.
PROC 8a, 8b: Covers skin contact area up to 960 cm². Both hands.

Other given operational conditions affecting workers exposure

Setting
Indoor use.

Temperature
≤ 40 °C

Ventilation rate
1 - 3 air changes per hour Unless otherwise stated.

Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures
Use as a fuel - Industrial

Bulk transfers
(PROC 4)
Recommendation:
Wear suitable gloves tested to EN374.

Drum/batch transfers
(PROC 8b)
Provide adequate general and local exhaust ventilation.
Recommendation:
Use drum pumps or carefully pour from container.
Wear suitable gloves tested to EN374.

Bulk transfers
(PROC 8b)
Recommendation:
Use drum pumps or carefully pour from container.
Wear suitable gloves tested to EN374.

General exposures (closed systems)
Continuous process
(PROC 1)
No specific measures identified.

General exposures (closed systems)
Continuous process
With sample collection
(PROC 2)
Recommendation:
Ensure material transfers are under containment or extract ventilation.

General exposures (closed systems)
Batch process
(PROC 3)
Recommendation:
Ensure material transfers are under containment or extract ventilation.

General exposures (open systems)
(PROC 16)
Recommendation:
Ensure material transfers are under containment or extract ventilation.

Process sampling
(PROC 3)
Recommendation:
Wear suitable gloves tested to EN374.

Equipment cleaning and maintenance
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Vessel and container cleaning
(PROC 8a)
Use as a fuel - Industrial

Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Provide enhanced general ventilation by mechanical means.
If above technical/organisational control measures are not feasible, then adopt following PPE:
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin.

Storage
(PROC 1, PROC 2)
No specific measures identified.

Refuelling
(PROC 8b)
Recommendation:
Use drum pumps or carefully pour from container.
Use vapour recovery units when necessary.
Wear suitable gloves tested to EN374.

Laboratory activities
(PROC 15)
Recommendation:
Handle in a fume cupboard or under extract ventilation.
Wear suitable gloves (tested to EN374), coverall and eye protection.

| 3. Exposure estimation (Environment 1) |
| Assessment method | Used Petrorisk model. |

| 3. Exposure estimation (Health 1) |
| Assessment method | Used CHESAR model. |
Exposure scenario
Use as a fuel - Professional

Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Renewable hydrocarbons (diesel type fraction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU REACH registration number</td>
<td>01-2119450077-42-XXXX</td>
</tr>
<tr>
<td>Version number</td>
<td>2017</td>
</tr>
<tr>
<td>Es reference</td>
<td>14</td>
</tr>
</tbody>
</table>

1. Title of exposure scenario

<table>
<thead>
<tr>
<th>Main title</th>
<th>Use as a fuel - Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process scope</td>
<td>Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.</td>
</tr>
<tr>
<td>Main sector</td>
<td>SU22 Professional uses</td>
</tr>
</tbody>
</table>

Environment

<table>
<thead>
<tr>
<th>Environmental release category</th>
<th>ERC9a Widespread use of functional fluid (indoors)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPERC</td>
<td>ESVOC SPERC 9.12b.v1</td>
</tr>
</tbody>
</table>

Worker

<table>
<thead>
<tr>
<th>Process category</th>
<th>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</td>
</tr>
<tr>
<td></td>
<td>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</td>
</tr>
<tr>
<td></td>
<td>PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC16 Use of fuels</td>
</tr>
</tbody>
</table>

2. Conditions of use affecting exposure (Industrial - Environment 1)

Amounts used

| Fraction of EU tonnage used in region: 0.1 |
| Daily amount per site: ≤ 160 kg |

Frequency and duration of use

| Emission days: 365 days/year |

Other given operational conditions affecting environmental exposure

<table>
<thead>
<tr>
<th>Emission factor - air</th>
<th>0,01 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission factor - water</td>
<td>0,001 %</td>
</tr>
<tr>
<td>Emission factor - soil</td>
<td>0,001 %</td>
</tr>
</tbody>
</table>

Environmental factors not influenced by risk management measures

<table>
<thead>
<tr>
<th>Dilution</th>
<th>Local freshwater dilution factor: 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Local marine water dilution factor: 100</td>
</tr>
</tbody>
</table>
Use as a fuel - Professional

Risk management measures

STP type
Aerobic biological treatment

STP details
Assumed domestic sewage treatment plant flow (m³/day):
2000.

Conditions and measures related to external treatment of waste for disposal

Disposal method
Dispose of waste in accordance with environmental legislation.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state
Liquid

Concentration details
Covers percentage substance in the product up to 100% (unless stated differently).

Frequency and duration of use
Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts
PROC 1, PROC 3, PROC 16: Covers skin contact area up to 240 cm². Palm of one hand.
PROC 2: Covers skin contact area up to 480 cm². Palm of both hands.
PROC 8a, 8b: Covers skin contact area up to 960 cm². Both hands.

Other given operational conditions affecting workers exposure

Setting
Indoor use.

Temperature
≤ 40 °C

Ventilation rate
1 - 3 air changes per hour Unless otherwise stated.

Risk management measures
Use as a fuel - Professional

Bulk transfers
Heating oil and diesel deliveries
(PROC 8b)
Provide adequate general and local exhaust ventilation.
Recommendation:
Handle substance within a closed system.
Wear suitable gloves tested to EN374.

Drum/batch transfers
(PROC 8b)
Provide adequate general and local exhaust ventilation.
Recommendation:
Use drum pumps or carefully pour from container.
Wear suitable gloves tested to EN374.

Refuelling
(PROC 8b)
Provide adequate general and local exhaust ventilation.
Recommendation:
Use drum pumps or carefully pour from container.
Wear suitable gloves tested to EN374.

Dipping, immersion and pouring
(PROC 8b)
Wear suitable gloves tested to EN374.

General exposures
(PROC 1, PROC 2, PROC 3, PROC 16)
No specific measures identified.

Equipment cleaning and maintenance
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Vessel and container cleaning
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Storage
(PROC 1, PROC 2)
No specific measures identified.

3. Exposure estimation (Environment 1)

Assessment method
Used Petrorisk model.

3. Exposure estimation (Health 1)

Assessment method
Used CHESAR model.
Exposure scenario
Use as a fuel - Consumer

Identification

Product name
Renewable hydrocarbons (diesel type fraction)

EU REACH registration number
01-2119450077-42-XXXX

Version number
2017

Es reference
23

1. Title of exposure scenario

Main title
Use as a fuel - Consumer

Process scope
Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Product category
PC13 Fuels.

Main sector
SU21 Consumer uses

Environment

Environmental release category
ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (outdoor)

SPERC
ESVOC SPERC 9.12c.v1

Non-Industrial

Product sub-category
PC13_1 Liquid: automotive refuelling
PC13_2 Liquid: scooter refuelling
PC13_3 Liquid: garden equipment - use
PC13_4 Liquid: Garden equipment - Refuelling
PC13_5 Liquid: lamp oil
PC13_6 Liquid: home space heater fuel
PC13_n Liquid: refuelling of boats

2. Conditions of use affecting exposure (Non-Industrial - Environment 1)

Amounts used
Fraction of EU tonnage used in region: 0,1
Daily amount per site: ≤ 550 kg

Frequency and duration of use
Emission days: 365 days/year

Other given operational conditions affecting environmental exposure

Emission factor - air
0,01 %

Emission factor - water
0,001 %

Emission factor - soil
0,001 %

Environmental factors not influenced by risk management measures

Dilution
Local freshwater dilution factor: 10
Local marine water dilution factor: 100

Risk management measures
# Use as a fuel - Consumer

## Technical measures
Indoor/outdoor use.

## STP type
Aerobic biological treatment

## STP details
Assumed domestic sewage treatment plant flow (m³/day): 2000.

## Conditions and measures related to external treatment of waste for disposal
Disposal method
Dispose of waste in accordance with environmental legislation.

## 2. Conditions of use affecting exposure (Non-Industrial - Health 1)

### Product characteristics

#### Concentration details
Covers percentage substance in the product up to 100% (unless stated differently).

#### Amounts used
- **PC13_1 Liquid**: automotive refuelling
  - For each use event, covers use amounts up to 38.6 kg.
- **PC13_2 Liquid**: scooter refuelling
  - For each use event, covers use amounts up to 7.5 kg.
- **PC13_3 Liquid**: garden equipment - use
  - For each use event, covers use amounts up to 772 g.
- **PC13_4 Liquid**: Garden equipment - Refuelling
  - For each use event, covers use amounts up to 772 g.
- **PC13_5 Liquid**: lamp oil
  - For each use event, covers use amounts up to 100 g.
- **PC13_6 Liquid**: home space heater fuel
  - For each use event, covers use amounts up to 3320 g.
- **PC13_n Liquid**: refuelling of boats
  - For each use event, covers use amounts up to 156.0 kg.

## Frequency and duration of use
Use as a fuel - Consumer

Covers use up to 1 time(s)/day.

- PC13_1 Liquid: automotive refuelling
  Covers exposure up to 0.05 hours per event.
  (occasional use over a year)

- PC13_2 Liquid: scooter refuelling
  Covers exposure up to 0.02 hours per event.
  (frequent use over a year)

- PC13_3 Liquid: garden equipment - use
  Covers exposure up to 2.00 hours per event.
  (occasional use over a year)

- PC13_4 Liquid: Garden equipment - Refuelling
  Covers exposure up to 0.03 hours per event.
  (occasional use over a year)

- PC13_5 Liquid: lamp oil
  Covers exposure up to 0.01 hours per event.
  (occasional use over a year)

- PC13_6 Liquid: home space heater fuel
  Covers exposure up to 0.1 hours per event.
  (frequent use over a year)

- PC13_n Liquid: refuelling of boats
  Covers exposure up to 0.25 hours per event.
  (infrequent use over a year)

Human factors not influenced by risk management

Potentially exposed body parts

- Palm of one hand. Unless otherwise stated.
- PC13_4 Liquid: Garden equipment - Refuelling: Palm of both hands.

Other given operational conditions affecting Non-industrial exposure

Setting

- Outdoor use. Unless otherwise stated.
- PC13_5 Liquid: lamp oil: Indoor/outdoor use.

Other given operational conditions affecting Non-industrial exposure

Avoid contact with skin, eyes and clothing. Wash promptly if skin becomes contaminated. All handling should only take place in well-ventilated areas. Do not ingest. If swallowed, then seek immediate medical assistance.

3. Exposure estimation (Environment 1)

Assessment method Used Petrorisk model.

3. Exposure estimation (Health 1)

Assessment method Used CHESAR model.
# Exposure scenario

## Use as Intermediate - Industrial

### Identification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Renewable hydrocarbons (diesel type fraction)</td>
</tr>
<tr>
<td>EU REACH registration number</td>
<td>01-2119450077-42-XXXX</td>
</tr>
<tr>
<td>Version number</td>
<td>2017</td>
</tr>
<tr>
<td>Es reference</td>
<td>05</td>
</tr>
</tbody>
</table>

### 1. Title of exposure scenario

<table>
<thead>
<tr>
<th>Main title</th>
<th>Use as Intermediate - Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process scope</td>
<td>Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).</td>
</tr>
<tr>
<td>Main sector</td>
<td>SU3 Industrial uses</td>
</tr>
</tbody>
</table>

### Environment

<table>
<thead>
<tr>
<th>Environmental release category</th>
<th>ERC6a Use of intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPERC</td>
<td>ESVOC SPERC 6.1a.v1</td>
</tr>
</tbody>
</table>

### Worker

<table>
<thead>
<tr>
<th>Process category</th>
<th>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</td>
</tr>
<tr>
<td></td>
<td>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</td>
</tr>
<tr>
<td></td>
<td>PROC4 Chemical production where opportunity for exposure arises</td>
</tr>
<tr>
<td></td>
<td>PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities</td>
</tr>
<tr>
<td></td>
<td>PROC15 Use as laboratory reagent.</td>
</tr>
</tbody>
</table>

### 2. Conditions of use affecting exposure (Industrial - Environment 1)

#### Amounts used

- Fraction of EU tonnage used in region: 1
- Daily amount per site: \( \leq 50 \text{ t} \)
- Annual amount per site: \( \leq 15\,000 \text{ t} \)

#### Frequency and duration of use

- Emission days: 300 days/year

#### Other given operational conditions affecting environmental exposure

<table>
<thead>
<tr>
<th>Emission factor - air</th>
<th>0.002%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission factor - water</td>
<td>0.001%</td>
</tr>
<tr>
<td>Emission factor - soil</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
Use as Intermediate - Industrial

Environmental factors not influenced by risk management measures

Dilution
- Local freshwater dilution factor: 10
- Local marine water dilution factor: 100

Risk management measures

STP type
- Aerobic biological treatment

STP details
- Assumed domestic sewage treatment plant flow (m³/day): 2000.

Conditions and measures related to external treatment of waste for disposal

Disposal method
- Dispose of waste in accordance with environmental legislation.

Conditions and measures related to external recovery of waste

Recovery method
- Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state
- Liquid

Concentration details
- Covers percentage substance in the product up to 100% (unless stated differently).

Frequency and duration of use
- Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts
- PROC 1, PROC 3, PROC 15: Covers skin contact area up to 240 cm². Palm of one hand.
- PROC 2, PROC 4: Covers skin contact area up to 480 cm². Palm of both hands.
- PROC 8a, 8b: Covers skin contact area up to 960 cm². Both hands.

Other given operational conditions affecting workers exposure

Setting
- Indoor use.

Temperature
- ≤ 40 °C

Ventilation rate
- 1 - 3 air changes per hour Unless otherwise stated.
  Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures
Use as Intermediate - Industrial

General exposures (closed systems)
(PROC 1)
No specific measures identified.

General exposures (closed systems)
With sample collection
With occasional controlled exposure
(PROC 2)
No specific measures identified.

General exposures (closed systems)
Batch process
(PROC 3)
No specific measures identified.

General exposures (open systems)
Batch process
With sample collection
(PROC 4)
No specific measures identified.

Sampling
(PROC 8b)
No specific measures identified.

Laboratory activities
(PROC 15)
Provide adequate general and local exhaust ventilation.
Wear suitable gloves tested to EN374.
Recommendation:
Handle in a fume cupboard or under extract ventilation.

Bulk transfers
(closed systems)
(PROC 8b)
No specific measures identified.

Equipment cleaning and maintenance
(PROC 8a)
Provide adequate general and local exhaust ventilation.
Recommendation:
Drain down and flush system prior to equipment break-in or maintenance.
Wear suitable gloves tested to EN374.

Storage
(PROC 1, PROC 2)
No specific measures identified.

3. Exposure estimation (Environment 1)

| Assessment method | Used Petrorisk model. |

3. Exposure estimation (Health 1)

| Assessment method | Used CHESAR model. |