

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

1.1. Product identifier

Product form : Mixture
 Product name : EUROFOUR PRO
 Product code : F125 ind04
 Type of product : Detergent
 Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Professional uses
 Use of the substance/mixture : Degreaser and oven cleaner

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Christeyns France S.A.
 rue de la Maladrie 31
 44120 VERTOU
 France
 T +33 (0)240 80 27 27 - F +33 (0)240 03 09 73
health-security@christeyns.fr - www.christeyns.com

1.4. Emergency telephone number

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 H290
 Skin Corr. 1A H314
 Aquatic Chronic 3 H412

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger
 Contains : Potassium hydroxide
 Hazard statements (CLP) : H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.
 H412 - Harmful to aquatic life with long lasting effects.
 Precautionary statements (CLP) : P260 - Do not breathe Spray, Mist.
 P234 - Keep only in original container.
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310 - Immediately call a POISON CENTER/doctor.

2.3. Other hazards

| Component | |
|---|---|
| Potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Sodium cumenesulfonate (15763-76-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|--|
| Potassium hydroxide substance with national workplace exposure limit(s) (IE, GB) | CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33 | 10 – 30 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 |
| Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) | CAS-no: 68603-42-9 Einecs nr: 931-329-6 REACH-no: 01-2119490100-53 | 3 – 5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Sodium cumenesulfonate | CAS-no: 15763-76-5 Einecs nr: 239-854-6 REACH-no: 01-2119489411-37 | 1 – 3 | Eye Irrit. 2, H319 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|---------------------|--|---|
| Potassium hydroxide | CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33 | (0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: In case of doubt or persistent symptoms, consult always a physician. For symptom description, see item 11.

Inhalation

: In case of malaise, seek medical advice.

Skin contact

: Take off immediately all contaminated clothing. Rinse immediately and plentifully with water and seek medical advice.

Eye contact

: Rinse immediately and plentifully with water and take medical advice.

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Ingestion : Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

Acute effects inhalation : No data available.
Acute effects skin : Causes burns.
Acute effects eyes : Causes serious eye damage.
Acute effects oral route : Burns of the upper digestive and respiratory tracts.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Shower, eyes shower and water point in proximity. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Only store product in original container. Store at ambient temperature. Protect from sunlight.

Incompatible products : Acids.

Storage temperature : 5 – 40 °C

Material(s) to avoid : Acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Potassium hydroxide (1310-58-3) | |
|--|---------------------------------------|
| Ireland - Occupational Exposure Limits | |
| Local name | Potassium hydroxide |
| OEL STEL | 2 mg/m³ |
| Regulatory reference | Chemical Agents Code of Practice 2020 |

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Potassium hydroxide (1310-58-3)

United Kingdom - Occupational Exposure Limits

| | |
|----------------------|---------------------------------------|
| Local name | Potassium hydroxide |
| WEL STEL (OEL STEL) | 2 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Potassium hydroxide (1310-58-3)

DNEL/DMEL (Workers)

| | |
|---------------------------------------|---------------------|
| Long-term - local effects, inhalation | 1 mg/m ³ |
|---------------------------------------|---------------------|

DNEL/DMEL (General population)

| | |
|---------------------------------------|---------------------|
| Long-term - local effects, inhalation | 1 mg/m ³ |
|---------------------------------------|---------------------|

Sodium cumenesulfonate (15763-76-5)

DNEL/DMEL (Workers)

| | |
|--|-----------------------------|
| Long-term - systemic effects, dermal | 136.25 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 26.9 mg/m ³ |

DNEL/DMEL (General population)

| | |
|--|---------------------------|
| Long-term - systemic effects, oral | 3.8 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 6.6 mg/m ³ |
| Long-term - systemic effects, dermal | 68.1 mg/kg bodyweight/day |

PNEC (Water)

| | |
|--------------------------------------|------------|
| PNEC aqua (freshwater) | 0.23 mg/l |
| PNEC aqua (marine water) | 0.023 mg/l |
| PNEC aqua (intermittent, freshwater) | 2.3 mg/l |

PNEC (Sediment)

| | |
|------------------------------|------------------|
| PNEC sediment (freshwater) | 0.862 mg/kg dwt |
| PNEC sediment (marine water) | 0.0862 mg/kg dwt |

PNEC (Soil)

| | |
|-----------|-----------------|
| PNEC soil | 0.037 mg/kg dwt |
|-----------|-----------------|

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 100 mg/l |
|-----------------------------|----------|

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9)

DNEL/DMEL (Workers)

| | |
|--|---------------------------|
| Long-term - systemic effects, dermal | 4.16 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 0.09 mg/cm ² |
| Long-term - systemic effects, inhalation | 73.4 mg/m ³ |

DNEL/DMEL (General population)

| | |
|--|---------------------------|
| Long-term - systemic effects, oral | 6.25 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 21.73 mg/m ³ |
| Long-term - systemic effects, dermal | 2.5 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 0.056 mg/cm ² |

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9)

PNEC (Water)

| | |
|------------------------|------------|
| PNEC aqua (freshwater) | 0.195 mg/l |
|------------------------|------------|

| | |
|--------------------------|-------------|
| PNEC aqua (marine water) | 0.0195 mg/l |
|--------------------------|-------------|

PNEC (Sediment)

| | |
|----------------------------|------------------|
| PNEC sediment (freshwater) | 0.0118 mg/kg dwt |
|----------------------------|------------------|

PNEC (Soil)

| | |
|-----------|------------------|
| PNEC soil | 0.0348 mg/kg dwt |
|-----------|------------------|

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 830 mg/l |
|-----------------------------|----------|

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be fixed with the producer (minimum level 2)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not flush into surface water or sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------|-----------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Physical state/form | : Liquid. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point/range | : Not available |
| Freezing point | : Not available |

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| | |
|---|---------------------|
| Boiling point/Boiling range | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : Not available |
| Autoignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : > 14 (100%) |
| pH solution | : 12 (1%) |
| Viscosity, kinematic | : Not available |
| Solubility | : Water: 100 % 20°C |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not determined |
| Relative density | : 1.11 |
| Relative vapour density at 20 °C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Do not mix with other products.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. nitrogen oxides (NOx).

SECTION 11: Toxicological information

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

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Potassium hydroxide (1310-58-3) | |
|---------------------------------|--|
| LD50 oral rat | 273 mg/kg |
| Skin corrosion/irritation | : Causes severe skin burns. pH: > 14 (100%) |
| Serious eye damage/irritation | : Assumed to cause serious eye damage pH: > 14 (100%) |

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| | |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9)

| | |
|------------------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

Potassium hydroxide (1310-58-3)

| | |
|-----------------|---------|
| LC50 - Fish [1] | 80 mg/l |
|-----------------|---------|

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9)

| | |
|-----------------|--------|
| LC50 - Fish [1] | 1 – 10 |
|-----------------|--------|

12.2. Persistence and degradability

EUROFOUR PRO

| | |
|-------------------------------|--|
| Persistence and degradability | The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
|-------------------------------|--|

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

| | |
|---|---|
| Potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-42-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Sodium cumenesulfonate (15763-76-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|--|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of this material and its container at hazardous or special waste collection point. |
| Waste / unused products | : Dispose of this material and its container at hazardous or special waste collection point. |
| European List of Waste (LoW) code | : 20 01 29* - detergents containing dangerous substances |
| HP Code | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment HP8 - "Corrosive:" waste which on application can cause skin corrosion. HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. |

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|----------------|----------------|
| 14.1. UN number or ID number | | |
| Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | |
| Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | |
| Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Not applicable | Not applicable | Not applicable |
| No supplementary information available | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

CESIO recommendations

: The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Other information, restriction and prohibition regulations

: Not affected by the conditions of restriction _ ANNEXE XVII.

Detergent Regulation (648/2004/EC): Labelling of contents:

| Component | % |
|--|-----|
| anionic surfactants, non-ionic surfactants, polycarboxylates | <5% |

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

EUROFOUR PRO

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 16: Other information

Other information

: It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. Such information is actually to be best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other product(s). EC Regulation 1272/2008 and its amendments.

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|-----------------------|
| Met. Corr. 1 | H290 | Expert judgment |
| Skin Corr. 1A | H314 | On basis of test data |
| Aquatic Chronic 3 | H412 | Calculation method |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.