

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010



Article No.: 741042
State/ Print date: 18.05.2015
Version: 21.2

Feroclean LE 643 K
Revision date: 12.03.2015
Issue date: 12.03.2015

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PETROFER
industrial oils and chemicals

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Identification of the substance or mixture Feroclean LE 643 K

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

Relevant identified uses

Cleaning agent
Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

PETROFER-CHEMIE

Römerring 12-16

DE-31137 Hildesheim

Telephone: +49(0)5121/7627-0

Telefax: +49(0)5121/54438

Dept. responsible for information:

E-mail (competent person)

MSDS@Petrofer.com

1.4. Emergency telephone number

Emergency telephone number

+44(0)1235 239670 Petrofer-NCEC29003

+49(0)5121/7627-0

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as hazardous according to 1999/45/EC.

Xn; R65

Harmful

R66

Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Labelling (67/548/EEC or 1999/45/EC)



Xn Harmful

Hazard statements

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

24 Avoid contact with skin.

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

contains:

Isoalkanes

Special provisions concerning the labelling of certain mixtures

n.a.

2.3. Other hazards

3. Composition / Information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description contains hydrocarbons, anti corrosion agents and adjuvants

Hazardous ingredients

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

EC No.

REACH No.

CAS No.

Chemical name

INDEX No.

classification:

Wt %

Remark

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| | | |
|---------------------------------------|--|----------|
| 271-366-9 68551-17-7 | Isoalkanes Asp. Tox. 1 H304 / Aquatic Chronic 4 H413 | 60 < 100 |
| 203-961-6 112-34-5 603-096-00-8 | 01-2119475104-44 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 H319 | 2,5 < 5 |
| 68920-66-1 | Fatty alcohol, ethoxylated Skin Irrit. 2 H315 | 2,5 < 5 |

Classification according to Directive 67/548/EEC or 1999/45/EC

| EC No. CAS No. | Chemical name classification: | Wt % Remark |
|-------------------------|--|----------------|
| 271-366-9 68551-17-7 | Isoalkanes Xn; R65 / R66 | 60 < 100 |
| 203-961-6 112-34-5 | 01-2119475104-44 2-(2-butoxyethoxy)ethanol Xi; R36 | 2,5 < 5 |
| 68920-66-1 | Fatty alcohol, ethoxylated Xi; R38 | 2,5 < 5 |

Additional information

Full text of R-phrases: see section 16.
 Full text of H-phrases: see section 16.

4. First-aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Do NOT induce vomiting after ingestion in order to avoid entry into the lungs.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, dry powder, CO2

For safety reasons inappropriate extinguishing methods:
 Water

5.2. Special hazards arising from the substance or mixture

None

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Inhaling hazardous decomposing products can cause serious health damage.

5.3. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

When using do not eat, drink or smoke. Avoid unnecessary contact. Avoid release to the environment.

Precautions against fire and explosion:

See chapter 9 for flashpoint!

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. According to the regional regulations.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

Treat as emulsifiable mineral oil.

8. Exposure controls / Personal protection

8.1. Control parameters

Occupational exposure limit values:

| EC No. CAS No. | Description | type | Limit valueUnit STEL (EC) TWA (EC) |
|-------------------|-------------|------|---------------------------------------|
|-------------------|-------------|------|---------------------------------------|

Hydrocarbon solvents

OEL: 800 mg/m³ EH40/02 (UK)

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Occupational exposure controls

Respiratory protection

Do not breathe gas/vapour/aerosol.

Respiratory protection necessary at: aerosol or mist formation and insufficient exhaust

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Filtering Half-face mask (DIN EN 149): P2 . Usually no personal respirative protection necessary.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber) PVC (Polyvinyl chloride) CR (polychloroprene, chloroprene rubber) Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Apron

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state liquid
Colour slightly yellow
Odour typical

| Safety relevant basis data | Measured values | Unit | Method | Remark |
|---|--------------------|-------------------|--------------------------------|------------------|
| Flash point: ca. | 62 | °C | EN ISO 2719 | |
| Ignition temperature in °C | n.a. | | | |
| Lower explosion limit | 0,6 | Vol-% | | literature value |
| Upper explosion limit | 6,5 | Vol-% | | literature value |
| Density at 20 °C: ca. | 0,783 | g/cm ³ | DIN 51757 | |
| Water solubility (g/L) | partly emulsifying | | | |
| pH at 20 °C (2,0 Wt %): ca. | 6,90 | | DIN 51369 | |
| Viscosity at 20 °C: ca. | 2,9 | | mm ² /s DIN 51562/1 | |
| Initial boiling point and boiling range : ca. | n.b. | | | |
| Pour point <= | -36 | °C | ISO3016 | |

9.2. Other information:

The product contains VOC materials. Due to the application, corresponding laws and regulations have to be observed.

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.5. Incompatible materials

No special

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

No special

Additional information

The product is free from chlorine, PCB and PCT.

11. Toxicological information

11.1. Information on toxicological effects

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Acute toxicity

Toxicological data are not available.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Increased vapour concentration by prolonged exposure may cause headache and dizziness. Longer contact may cause degreasing of the skin.

Even smallest quantities which enter the lungs either after ingestion or after vomiting may cause a lung oedema or pneumonia.

Due to the chemical composition it is expected that the LD50-value is significantly above 2000 mg/kg.

Other observations:

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. Ecological information

overall evaluation

-- Mineral oil / hydrocarbon product --

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1. Toxicity

No information available.

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

13. Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

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Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

070104 other organic solvents, washing liquids and mother liquors
120199 wastes not otherwise specified

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

14. Transport information

No dangerous good in sense of this transport regulation.

14.1. UN number

n.a.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

n.a.

14.4. Packing group

n.a.

14.5. Environmental hazards

Land transport (ADR/RID)

n.a.

Marine pollutant

n.a.

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code

Sea transport (IMDG)

EmS-No.

n.a.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

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

EU legislation

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

Substance/product listed in the following inventories:

All ingredients are listed in or exempt from the EPA Toxic Substance Control Act (TSCA)

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

16. Other information

Relevant R-and H-phrases (Number and full text):

Asp. Tox. 1 / H304

Aspiration hazard

May be fatal if swallowed and enters airways.

Aquatic Chronic 4 / H413

Hazardous to the aquatic environment

May cause long lasting harmful effects to aquatic life.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

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Skin Irrit. 2 / H315
Xi; R36
Xi; R38
Xn; R65
R66

skin corrosion/irritation
Irritant
Irritant
Harmful

Causes skin irritation.
Irritating to eyes.
Irritating to skin.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

n.a.= not applicable
n.b.= not determined