

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 1 of 11

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

1.1 Product identifier

Trade name: 151 - Grinding oil 411 NE
This safety data sheet pertains to the following products:
Article number: 42200005 - GRINDING OIL 411/1 NE
Article number: 42200006 - GRINDING OIL 411/5 NE

UFI: CK50-20MU-F00S-U9NC

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

General use: metal working fluids
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: August Rueggeberg GmbH & Co. KG
PFERD-Werkzeuge
Street/POB-No.: Hauptstraße 13
Postal Code, city: DE-51709 Marienheide
WWW: www.pferd.com
E-mail: info@pferd.com
Telephone: +49 (0)2264-9-0
Telefax: +49 (0)2264-9-400

Department responsible for information:
Telephone: +49 (0) 2264-9-0

1.4 Emergency telephone number

Germany: 0800-181-5313
Austria: 0800-802278
France: 0805-089352
Italy: 800-794-834
Bulgaria: 359-32571722
Poland: +48-223073296
Sweden: 020-889-215
Greece: 30-2111981153
Portugal: 800 250 250
Other EU-Countries: 1-813-248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
(EUH066) Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 2 of 11

2.2 Label elements

Labelling (CLP)



Signal word:

Danger

Hazard statements: H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains highly refined base oils.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: preparations of hydrocarbons / petroleum products with additives

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. - CAS -	Highly refined base oils (viscosity at 40 °C: > 7 - < 20.5 cSt)	50 - 100 %	Asp. Tox. 1; H304. (EUH066).
EC No. - CAS -	Highly refined base oils (viscosity at 40 °C: < 7 cSt)	2.5 - 10 %	Asp. Tox. 1; H304. (EUH066).
REACH 01-2119510876-35-xxxx EC No. 246-807-3 CAS 25307-17-9	2,2'-(Octadec-9-enylimino) bisethanol	< 1 %	Acute Tox. 4; H302. Skin Corr. 1B; H314. Aquatic Acute 1; H400 (M-factor = 1). Aquatic Chronic 1; H410 (M-factor = 1).

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 3 of 11

Additional information: Contains: < 3% DMSO-extract (IP 346)
Information about Highly refined base oils (viscosity at 40 °C: > 7 - < 20.5 cSt):
64742-54-7, 64742-65-0, 64742-52-5, 64742-53-6, 64742-62-7, 64742-57-0, 64742-01-4,
64741-88-4, 64741-96-4, 64741-97-5, 64742-55-8, 64742-56-9,
64741-89-5, 64742-47-8, 8042-47-5
Information about Highly refined base oils (viscosity at 40 °C: < 7 cSt):
64742-54-7, 64742-65-0, 64742-52-5, 64742-53-6, 64742-62-7, 64742-57-0, 64742-01-4,
64741-88-4, 64741-96-4, 64741-97-5, 64742-55-8, 64742-56-9, 64741-89-5, 64742-47-8,
8042-47-5.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.
In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.
Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing: Caution if victim vomits: Risk of aspiration! Immediately get medical attention. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:
Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible. On heating or in case of fire toxic gases may form. In case of fire may be liberated: smoke, traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 4 of 11

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Cool endangered containers with water spray and, if possible, remove from danger zone. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.

Store in special closed containers and dispose of according to ordinance.

Thoroughly clean surrounding area.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid aerosol and mist formation. Avoid breathing mist/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat.

When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Recommended storage temperature: 5 °C up to 40 °C

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 5 of 11

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.
Do not store together with strong oxidizing agents, strong acids or strong bases.

Storage class: 10 = Combustible liquids, unless storage class 3

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Great Britain: MEL/OES-STEL	10 mg/m ³ (Oil mist)
Great Britain: MEL/OES-TWA	5 mg/m ³ (Oil mist)
Ireland: 8 hours	5 mg/m ³ (Oil mist mineral, inhalable fraction)

Additional information: Observe in addition any national exposure limit values!

DNEL/DMEL: Information about 2,2'-(Octadec-9-enylimino)bisethanol:
DNEL workers systemic, long-term, dermal: 0.25 mg/kg
DNEL workers systemic, long-term, inhalative: 1.76 mg/m³
DNEL consumers systemic, long-term, oral: 0.179 mg/kg
DNEL consumers systemic, long-term, dermal: 0.179 mg/kg
DNEL consumers systemic, long-term, inhalative: 0.621 mg/m³

PNEC: Information about 2,2'-(Octadec-9-enylimino)bisethanol:
PNEC water (freshwater): 0.214 µg/L
PNEC water (marine water): 0.0214 µg/L
PNEC sediment (freshwater): 1.692 mg/kg
PNEC sediment (marine water): 0.1692 mg/kg
PNEC soil: 5 mg/kg

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection. If vapours form, use respiratory protection.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Recommendation: Use filter type A (= against vapours of organic substances) according to EN 14387.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 6 of 11

- Hand protection: Protective gloves according to EN 374.
Glove material:
nitrile rubber - Layer thickness: > 0.38 mm
butyl caoutchouc (butyl rubber) - Layer thickness: > 0.64 mm
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to EN 166.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:
Avoid breathing mist/spray. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: Clear, light yellow
- Odour: Like mineral oil
Odour threshold: No data available
- pH: Not applicable
- Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point/flash point range: 160 °C (ASTM D 92)
Evaporation rate: Not determined
- Flammability: Not determined
Explosion limits: No data available
- Vapour pressure: Not determined
Vapour density: Not determined
Density: at 20 °C: 0.86 g/mL
- Water solubility: Insoluble
- Partition coefficient: n-octanol/water: Not determined
- Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
- Viscosity, kinematic: at 40 °C: 8 cSt (ASTM D 445)
- Explosive properties: Not explosive
Oxidizing characteristics: Not oxidising

9.2 Other information

- Additional information: Setting point: -15 °C (ASTM D 97)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 7 of 11

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Avoid temperatures above or near flash point.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: Not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 8 of 11

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 2000 mg/kg

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

Other information: Information about Highly refined base oils (viscosity at 40 °C: > 7 - < 20.5 cSt):

LD50, Rat, oral: > 2000 mg/kg

LD50, Rat, dermal: > 2000 mg/kg

Information about Highly refined base oils (viscosity at 40 °C: < 7 cSt)

LD50, Rat, oral: > 2000 mg/kg

LD50, Rat, dermal: > 2000 mg/kg

Symptoms

In case of inhalation: Risk of serious damage to the lungs (by aspiration).

In case of ingestion: If swallowed or in the event of vomiting, risk of entering the lungs.

After contact with skin:

Repeated exposure may cause skin dryness or cracking.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Water Hazard Class: 1 = slightly hazardous to water

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 9 of 11

12.2 Persistence and degradability

Further details: According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
Not determined

12.4 Mobility in soil

The product is insoluble in water and is deposited on the water surface.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 12 01 07* = Mineral-based machining oils free of halogens (except emulsions and solutions)
* = Evidence for disposal must be provided.

Recommendation: Do not dispose of with household waste.
Special waste. Dispose of waste according to applicable legislation.
Do not allow to enter into ground-water, surface water or drains.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 10 of 11

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

National regulations - France

No data available

National regulations - EC member states

Volatile organic compounds (VOC):
Not determined

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830



151 - Grinding oil 411 NE

Product number 151

Revision date: 6/8/2020
Version: 7

Language: en-GB,DE,FR,IE

Date of print: 4/5/2021
Page: 11 of 11

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

- H302 = Harmful if swallowed.
- H304 = May be fatal if swallowed and enters airways.
- H314 = Causes severe skin burns and eye damage.
- H400 = Very toxic to aquatic life.
- H410 = Very toxic to aquatic life with long lasting effects.
- EUH066 = Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- OEL: Occupational Exposure Limit Value
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EN: European Standard
- EU: European Union
- IATA: International Air Transport Association
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- M-factor: Multiplication factor
- OECD: Organisation for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- TLV: Threshold Limit Value
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: emergency phone number Portugal
Date of first version: 20/12/2012

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.