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

GRINDING OIL 410 FE

Product number 150

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

1.1 Product identifier

Trade name: GRINDING OIL 410 FE

This safety data sheet pertains to the following products: Article number: 42200003 - GRINDING OIL 410/1 FE Article number: 42200004 - GRINDING OIL 410/5 FE

UFI: C850-10V8-700S-6XA3

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

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 +49 (0)2264-9-0

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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.

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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 (viscosity at 40 °C: > 7 - < 20.5 cSt).

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. 201-116-6 CAS 78-42-2	Tris(2-ethylhexyl)phosphate	1 - 2.5 %	not classified

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

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



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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 if problems persist.

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

Treat symptomatically.

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:

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: carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers.

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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist. 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, siliceus 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. Do not breathe mist. Do not get in eyes, on skin, or on clothing. Wear

appropriate protective equipment.

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.

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

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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Туре	Limit value
Great Britain: MEL/OES-STEL	10 mg/m³ (Oil mist)
Great Britain: MEL/OES-TWA	5 mg/m³ (Oil mist)
Ireland: 8 hours	5 mg/m³ (Oil mist mineral, inhalable fraction)

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

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.

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 combination filter type A/P according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber

Thickness: 0.38 mm.

Breakthrough time: > 480 min.

Glove material: butyl caoutchouc (butyl rubber)

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:

Do not breathe mist. Do not get in eyes, on skin, or on clothing.

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.

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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, yellow

Odour: Like mineral oil
Odour threshold: Not determined

pH: Not applicable

Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point/flash point range: 180 °C (o.c.)
Evaporation rate: No data available
Flammability: Not determined
Explosion limits: No data available

Vapour pressure: at 20 °C: Not determined

Vapour density: No data available
Density: at 20 °C: 0.84 g/mL

Water solubility: Insoluble

Partition coefficient: n-octanol/water:

No data available

Auto-ignition temperature:

Not determined

Not determined

Viscosity, kinematic: at 40 °C: 10 cSt (ASTM D 445)

Explosive properties: No data available
Oxidizing characteristics: No data available

9.2 Other information

Additional information: Solidification point: -24 °C (ASTM D 97)

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possilbility 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.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

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10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: Not determined

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 < ATE <= 5000 mg/kg

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

ATEmix (calculated): 2000 mg/kg < ATE <= 5000 mg/kg

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Based on available data, the classification criteria are not met. 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/Rabbit, dermal: > 2000 mg/kg

Information about Tris(2-ethylhexyl)phosphate:

LD50, Rat, oral: 37000 mg/kg LD50, Rabbit, dermal: 20000 mg/kg

Symptoms

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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Tris(2-ethylhexyl)phosphate:

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 42 mg/L/48 h

Water Hazard Class: 1 = slightly hazardous to water

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:

No data available

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

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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

14.4 Packing group

ADR/RID, IMDG, IATA-DGR

not applicable

14.5 Environmental hazards

Marine pollutant:

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: TA Luft 2002, 5.2.5;

mass flow rate 0.5 kg/h or mass concentration 50 g/m³

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):

11.5 % by weight = 96.6 g/L

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.

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

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SECTION 16: Other information

Further information

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

H304 = May be fatal if swallowed and enters airways.

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

EC50: Effective Concentration 50%

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

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 3: Composition / Information on ingredients

General revision

Date of first version: 17/12/2012

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.

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