

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:23/3/2023Version:2.0Replaces version:1.2Language:en-GBDate of print:7/6/2023Page:1 of 10

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

1.1 Product identifier

Trade name:

This safety data sheet pertains to the following products: 147658 = Drilling and Cutting Oil 21814 = Drilling and Cutting Oil 911371 = Drilling and Cutting Oil

UFI: E87X-41FX-N007-J3R2

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

General use: Iubricant. Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company name:	Berner Produkten b.v.
Street/POB-No.:	Vogelzankweg 175
Postal Code, city:	6374 AC Landgraaf
	Netherlands
WWW:	www.berner.nl
E-mail:	info@berner.nl
Telephone:	+31 45 53 39 133
Department responsible for infe	ormation:

Drilling and Cutting Oil

E-mail: Productsafety.Chemicals@berner-group.com

1.4 Emergency telephone number

Poisons information service: National Poisons Information Service (Birmingham Unit): 844 892 0111 Transport: CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner) Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2 Label elements

Labelling (CLP)

Signal word:

Hazard statements:



H229

Extremely flammable aerosol. Pressurised container: May burst if heated.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

 Revision date:
 23/3/2023

 Version:
 2.0

 Replaces version:
 1.2

 Language:
 en-GB

 Date of print:
 7/6/2023

 Page:
 2 of 10

Precautionary statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211 P251	Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Blend of active ingredients with propellant.

Identifiers	Designation Classification	Content
REACH 01-2119487077-29-xxxx EC No. 265-158-7 CAS 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304.	< 10 %
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	Butane (< 0,1% 1,3-Butadien) Flam. Gas 1; H220. Press. Gas (Comp.); H280.	10 - 25 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	10 - 25 %
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	lsobutane (< 0,1% 1,3-Butadien) Flam. Gas 1; H220. Press. Gas (Comp.); H280.	1 - 2.5 %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection!
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 treatment in case of troubles.
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:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

printed by Berner Produkten b.v.



Drilling and Cutting Oil

4.2 Most important symptoms and effects, both acute and delayed

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, water mist, extinguishing powder, alcohol resistant foam, 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

Extremely flammable aerosol. Pressurised container: May burst if heated. May form dangerous gases and vapours in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

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

Do not breathe spray. Avoid contact with the substance. In case of leakage, eliminate all ignition sources. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.

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 section 13).

Thoroughly clean surrounding area. Do not remove residual product with water and detergent. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

6.4 Reference to other sections

Refer additionally to section 8 and 13.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:23/3/2023Version:2.0Replaces version:1.2Language:en-GBDate of print:7/6/2023Page:4 of 10

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:	Provide adequate ventilation, and local exhaust as needed. Do not breathe spray. 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. When handling large quantities, supply emergency spray.
Precautions against fire and e	xplosion:
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.
7.2 Conditions fo	r safe storage, including any incompatibilities
Requirements for storerooms	and containers:
	Keep container tightly closed and in a well-ventilated place.
	Keep container dry. Keep only in the original container.
	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS No.	Designation	Туре	Limit value
106-97-8	Butane (< 0,1% 1,3-Butadien)	Great Britain: WEL-STEL	1810 mg/m³; 750 ppm
		Great Britain: WEL-TWA	1450 mg/m ³ ; 600 ppm

DNEL/DMEL: Information about Distillates (petroleum), hydrotreated light paraffinic: DNEL workers, long-term, systemic, inhalative: 2.73 mg/m³ DNEL workers, long-term, systemic, dermal: 0.97 mg/kg bw/d DNEL workers, long-term, systemic, oral: 0.74 mg/kg bw/d DNEL workers, long-term, local, inhalative: 5.58 mg/m³ DNEL consumers, long-term, local, inhalative: 1.19 mg/m³

8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. 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. Use filter type A2/P2 according to EN 14387.
Hand protection:	protective gloves according to EN 374. Glove material: Nitrile rubber - Layer thickness: ≥ 0.5 mm. Breakthrough time: > 480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to BS EN ISO 16321-1:2022.

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:23/3/2023Version:2.0Replaces version:1.2Language:en-GBDate of print:7/6/2023Page:5 of 10

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.
Do not breathe spray. Do not get in eyes, on skin, or on clothing.
When using do not eat or drink.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
When handling large quantities, supply emergency spray.

Environmental exposure controls

ERNER

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol Colour: Light yellow
Characteristic
No data available
No data available
No data available
-44.5 °C
-97 °C
No data available
Extremely flammable aerosol.
LEL (Lower Explosion Limit): 1.50 Vol-%
UEL (Upper Explosive Limit): 10.90 Vol-%
at 20 °C: 3.9 hPa
No data available
at 20 °C: 0.736 g/mL
Not/slightly miscible
No data available
Not self-igniting
No data available
No data available
Product is not explosive. Vapours can form explosive mixtures with air.
No data available
365 °C

Ignition temperature:	365 °C
Solvent content:	30 %
Solid content:	10 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol. Vapours can form explosive mixtures with air.



ERNER according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:	23/3/2023
Version:	2.0
Replaces versi	ion: 1.2
Language:	en-GB
Date of print:	7/6/2023
Page:	6 of 10

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No known hazardous decomposition products.Thermal decomposition:No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

	0
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.
	Acute toxicity (dermal): Based on available data, the classification criteria are not met.
	Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
	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: Based on available data, the classification criteria are not met.
Other information:	Information about Distillates (petroleum), hydrotreated light paraffinic: LD50 Rat, oral: > 2,000 mg/kg LD50 Rabbit, dermal: > 5,000 mg/kg



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:23/3/2023Version:2.0Replaces version:1.2Language:en-GBDate of print:7/6/2023Page:7 of 10

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about Distillates (petroleum), hydrotreated light paraffinic: Fish toxicity: LC50 Pimephales promelas (fathead minnow): > 100 mg/L/48h Daphnia toxicity: EC50 Daphnia magna (Big water flea): > 10,000 mg/L/48h NOEC Daphnia magna (Big water flea): > 10 mg/L/21d Algae toxicity: NOEL Pseudokirchneriella subcapitata (green algae): > 100 mg/L/72h

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter undiluted resp. in large quantities into surface water or into drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: Recommendation:	 16 05 04* = Gases in pressure containers (including halons) containing hazardous substances/Aerosol * = Evidence for disposal must be provided. Do not pierce or burn, even after use. Special waste. Dispose of waste according to applicable legislation. Do not dispose of with household waste.
Package	
Waste key number:	15 01 04 = metallic packaging
Recommendation:	Dispose of waste according to applicable legislation. Empty carefully and completely, if possible. Handle empty containers with care. Incineration may cause explosion.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG:	UN 1950, AEROSOLS
IATA-DGR:	UN 1950, AEROSOLS, FLAMMABLE



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:	23/3/2023
Version:	2.0
Replaces versi	
Language:	en-GB
Date of print:	7/6/2023
Page:	8 of 10

14.3 Transport hazard class(es)

ADR/RID:	Class 2, Code: 5F
IMDG:	Class 2.1, Subrisk -
IATA-DGR:	Class 2.1

not applicable

14.4 Packing group

ADR/RID, IATA-DGR: IMDG:

14.5 Environmental hazards

Marine pollutant:

14.6 Special precautions for user

no

Land transport (ADR/RID)

Warning board: Hazard label: Special Provisions: Limited quantities: EQ: Package - Instructions: Package - Special Provisions: Special provisions for packing together: Tunnel restriction code:	RID: Kemmler-number 23, UN number UN 1950 2.1 190 327 344 625 1 L E0 P207 LP200 PP87 RR6 L2 MP9 D
Sea transport (IMDG)	
EmS:	F-D, S-U
Special Provisions:	63 190 277 327 344 381 959
Limited quantities:	1000 mL
Excepted quantities:	E0
Package - Instructions:	P207, LP200
Package - Provisions:	PP87, L2
IBC - Instructions:	-
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	-

Tank instructions - UN:	-
Tank instructions - Provisions:	-
Stowage and handling:	SW1 SW22
Segregation:	SG69
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

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

No data available



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Drilling and Cutting Oil

Revision date:23/3/2023Version:2.0Replaces version:1.2Language:en-GBDate of print:7/6/2023Page:9 of 10

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

National regulations - Great Britain

BERNER

Hazchem-Code:

No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg Use restriction according to REACH annex XVII, no.: 3, 40, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Abbreviati

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

of the H-phrases unde	er paragraph 2 and 3:
	H220 = Extremely flammable gas.
	H222 = Extremely flammable aerosol.
	H229 = Pressurised container: May burst if heated.
	H280 = Contains gas under pressure; may explode if heated.
	H304 = May be fatal if swallowed and enters airways.
ions 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 Aerosol: Aerosol ASIN2S: Australian Standards/New Zealand Standards Asp. Tox.: Aspiration toxicity CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level DNEL: Derived mo-effect level ECS: European Community ECS0: Effective Concentration 50% EN: European Standard EQ: Excepted quantities EU: European Standard EQ: Excepted quantities EU: European Union Flam. Gas: Flammable gases IATA: International Air Transport Association IATA-DGR: International Air Transport Association IATA-DGR: International Air Transport Association ECS0: Effective Concentration 50% EU: European Union Flam. Gas: Flammable gases IATA: International Air Transport Association IATA-DGR: International Air Transport Association EC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IMDG Code: International Maritime Dangerous Goods Code LCS0: Median lethal concentration LD50: Lethal dose 50% LEL: Lower Explosion Limit MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships NOEC: No Observed Effect Concentration OEL: Occupational Safety and Health Administration PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration PBT: Persistent, Divacumulative and toxic PNEC: Predicted no-effect concentration PBT: Persistent, Divacumulative and toxic PNEC: Predicted no-effect concentration PTT: Persistent, Divacumulative and toxic PNEC: Predicted no-effect concentration PTT: Persistent, Divacumulative and toxic PNEC: Predicted no-effect concentration PTT: Persistent, Divacumulative and Carriage of Dangerous Goods by Rail TLV: Threshold Limit Value TRGS: Technical Rules for Hazardou



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Revision date:	23/3/2023
Version:	2.0
Replaces versi	ion: 1.2
Language:	en-GB
Date of print:	7/6/2023
Page:	10 of 10

Reason of change:	Changes in section 3: Composition / Information on ingredients
	Changes in section 8: DNEL
	Changes in section 11: Toxicological information
	Changes in section 12: Ecological information
	General revision
Date of first version:	23/9/2021

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.