

**SAFETY DATA SHEET****BASE OIL - ESCAID 120 ULA**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 27.03.2012

Revision date 06.03.2025

1.1. Product identifier

Product name BASE OIL - ESCAID 120 ULA

REACH Reg. No. 01-2119453414-43

EC No. 920-107-4

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

Use of the substance / mixture Solvent

Relevant identified uses

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

PROC1 Use in closed process, no likelihood of exposure
PROC2 Use in closed, continuous process with occasional controlled exposure
PROC3 Use in closed batch process (synthesis or formulation)
PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
PROC8a Transfer of substance or mixture (charging and discharging) at nondedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC15 Use as laboratory reagent
ERC1 Manufacture of substances
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Baker Hughes Norge AS
Office address	Kontinentalvegen 8
Postal address	Kontinentalvegen 8
Postcode	4056
City	TANANGER
Country	Norway
Telephone number	+47 51 71 75 00
Fax	+47 51 71 75 01
Email	BHNorwayHS&ETeam@bakerhughes.com
Website	www.bakerhughes.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 21 93 06 78 Description: CHEMTREC Nødtelefonnummer (NO) Telephone number: +47 22 59 13 00 Description: Giftinformasjonen Telephone number: +47 51 69 46 24 Description: Beredskapstelefon
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Asp. Tox. 1; H304
Substance / mixture hazardous properties	May be fatal if swallowed and enters airways.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics
Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents / container to an approved waste facility.
Supplemental label information	EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Physicochemical effects	Static accumulator: This product may accumulate static electricity.
Health effect	May irritate eyes. Spray mists may cause respiratory tract irritation.
Other hazards	The substance is not listed on ECHA's Endocrine disruptor assessment list.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents	Notes
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No.: 920-107-4 REACH Reg. No.: 01-2119453414-43	Asp. Tox. 1; H304 EUH 066	100 %	
Substance comments	See section 16 for explanation of hazard statements (H) listed above.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 113.
Inhalation	Fresh air and rest. In case of unconsciousness, loosen tight-fitting clothing. If respiratory problems, provide artificial respiration or oxygen. Seek medical advice.
Skin contact	Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if any discomfort continues. Wash contaminated clothing before reuse.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly. Drink small amounts of water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Risk of aspiration and chemical pneumonia. Get medical attention immediately!
Recommended personal protective equipment for first aid responders	It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

General symptoms and effects	Risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion.
Acute symptoms and effects	Inhalation: Solvent vapors may be harmful and overexposure may cause headaches, nausea, vomiting, and intoxication. Skin contact: Degreasing to skin. Eye contact: May cause eye irritation. Symptoms may be stinging pain and redness in the eyes. Ingestion: May cause nausea, vomiting and diarrhea. If, by vomiting, the

chemical reaches the lungs, life-threatening chemical pneumonia may develop. Symptoms such as coughing, breathing difficulties, vomiting or lethargy may indicate chemical pneumonitis.

Delayed symptoms and effects

Repeated exposure may cause skin dryness or cracking.

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

Medical monitoring for delayed effects

Monitor for 48 hours. Chemical pneumonia.

Other information

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry-powder, carbon dioxide (CO₂), water mist, foam.

Improper extinguishing media

Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

The chemical is not classified as flammable.
Under brann eller ved oppvarming vil det oppstå en trykkøkning, og beholderen kan revne. Static accumulator: This product may accumulate static electricity.

Hazardous combustion products

May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO₂). Smoke. Unspecified organic compounds.

5.3. Advice for firefighters

Personal protective equipment

Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.

Other information

Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Keep away from sources of ignition - No smoking.

Personal protection measures

Provide adequate ventilation.
Use protective equipment as referred to in section 8.
Avoid inhalation of vapours and spray mist and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautionary measures

Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up

Shut off leaks if without risk. Absorb in vermiculite, dry sand or earth and place into containers. Do not use sawdust or other combustible material. Collect in a suitable container and dispose as hazardous waste according to section 13.

6.4. Reference to other sections

Other instructions

See also sections 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Provide adequate ventilation. Use protective equipment as referred to in section 8.

Avoid swallowing.

Avoid inhalation of vapours/spray and contact with skin and eyes.

Protective safety measures

Safety measures to prevent fire

Keep away from heat / sparks / open flames / hot surfaces. — No smoking.

Take precautionary measures against static discharge.

Ground / bond container and receiving equipment.

Advice on general occupational hygiene

Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container in a dry, cool and well-ventilated place.

Ensure all containers are labeled. Keep upright.

Conditions to avoid

Avoid heat, flames and other sources of ignition. Protect from sunlight.

Conditions for safe storage

Packaging compatibilities

Store in original container.

Teflon, Carbon Steel, Stainless Steel, Polyester, Polyethylene, polypropylene.

Unsuitable container material: Butyl Rubber, Polystyrene, ethylene-propylene-diene monomer (EPDM), Natural Rubber.

Advice on storage compatability

Keep away from: Strong oxidizing agents. Food and feed.

7.3. Specific end use(s)

Specific use(s)

See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Decanes and higher aliphatic hydrocarbons		Country of origin: Norwegian ADN Limit value (8 h) : 40 ppm Limit value (8 h) : 275 mg/m ³	
Control parameters comments	References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom		

FOR-2024-05-15-785).

8.2. Exposure controls

Precautionary measures to prevent exposure

Instruction on measures to prevent exposure

Reference is made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Technical measures to prevent exposure

Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment

Description: Risk of splashes: Wear tight-fitting goggles or face shield.
Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).

Additional eye protection measures

Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable materials

Nitrile.

Breakthrough time

Value: > 480 minutter.

Thickness of glove material

Value: $\geq 0,38$ mm

Hand protection equipment

Description: Use protective gloves that are suitable for the application. The gloves abilities may vary among the different glove manufacturers.
Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).

Additional hand protection measures

Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.

Skin protection

Recommended protective clothing

Description: Use work clothes/protective clothing that is appropriate for the work operation.

Additional skin protection measures

Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection

Description: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A/P2). Wear

air-supplied mask in confined areas.

Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid
Colour	Colourless.
Odour	Slight.
pH	Comments: Not relevant.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Value: 236 - 265 °C Method: ASTM D86
Flash point	Value: 103 °C Method: ASTM D93 Comments: Closed Cup
Flammability	Not relevant, see flash point.
Explosion limit	Value: 0,5 - 5,0 vol%
Vapour pressure	Value: 0,02 mm Hg Comments: Calculated. Temperature: 20 °C
Vapour density	Value: 6,8 Comments: Calculated. Reference gas: Air = 1
Particle characteristics	Comments: Not relevant for liquids.
Relative density	Value: 0,82 Comments: Calculated.
Density	Value: 820 g/cm ³ Method: ISO 12185 Temperature: 15,6 °C
Solubility	Medium: Water Comments: Ignorable.
Partition coefficient: n-octanol/ water	Value: > 4 Comments: Estimated.
Auto-ignition temperature	Value: 220 °C Method: ASTM E659
Decomposition temperature	Comments: Not determined.
Viscosity	Value: 2,3 cSt

Comments: Calculated.
Temperature: 40 °C

9.2. Other information

Physical hazards

Pour point	Value: -33 °C Method: ASTM D5950
Number average molecular weight	Value: 198 g/mol

Other physical and chemical properties

Physical and chemical properties	Coefficient of Thermal Expansion: 0,00085 per ° C
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9.2.2. Other safety characteristics

Comments	No further information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific test data related to reactivity available for this chemical or its ingredients.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no dangerous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid	Protect from sunlight. Strong heat.
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10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

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

Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral
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Method: OECD 401
 Value: > 5000 mg/kg
 Species: Rat

Type of toxicity: Acute
 Effect tested: LD50
 Route of exposure: Dermal
 Method: OECD 402
 Value: > 5000 mg/kg
 Species: Rabbit

Type of toxicity: Acute
 Effect tested: LC50
 Route of exposure: Inhalation.
 Method: OECD 403
 Duration: 4 timer
 Value: > 5000 mg/m³
 Species: Rat

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data, the classification criteria are not met.
Assessment of aspiration hazard, classification	May be fatal if swallowed and enters airways.

Symptoms of exposure

In case of ingestion	May cause nausea, vomiting and diarrhea. Risk of chemical pneumonia (pneumonitis) if aspirated during and after ingestion. If, by vomiting, the chemical reaches the lungs, life-threatening chemical pneumonia may develop. Symptoms such as coughing, breathing difficulties, vomiting or lethargy may indicate chemical pneumonitis.
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In case of skin contact	Defats the skin. Repeated exposure may cause skin dryness or cracking.
In case of inhalation	Solvent vapours are hazardous and may cause nausea, sickness and headaches.
In case of eye contact	May cause temporary eye irritation.

11.2 Other information

Endocrine disruption	The substance is not listed on ECHA's Endocrine disruptor assessment list.
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SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Acute Value: 1000 mg/l Test duration: 96 t Species: Oncorhynchus mykiss Method: LLO Comments: Information given is based on data obtained from similar substances.
Aquatic toxicity, algae	Toxicity type: Acute Value: 1000 mg/l Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: ELO Comments: Information given is based on data obtained from similar substances. Toxicity type: Acute Value: 1000 mg/l Effect dose concentration: NOEL Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Comments: Information given is based on data obtained from similar substances.
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 1000 mg/l Test duration: 48 hour(s) Species: Daphnia magna Method: ELO Comments: Information given is based on data obtained from similar substances.
Ecotoxicity	The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Expected to be readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Information on bioaccumulation is not available for the chemical.
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12.4. Mobility in soil

Mobility

Low solubility and floats and is expected to migrate from water to the land.
Expected to partition to sediment and wastewater solids.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB
assessment

The chemical contains no PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

The substance is not listed on ECHA's Endocrine disruptor assessment list.

12.7. Other adverse effects

Additional ecological information

Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal
for the chemical

Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.

EWC waste code

EWC waste code: 07 06 04 other organicsolvents, washing liquids and mother liquors
Classified as hazardous waste: Yes

EWC waste code: 16 50 71
Classified as hazardous waste: Yes

NORSAS

7042 Organic solvents, non -halogenated.

Other information

Do not empty into drains.

SECTION 14: Transport information

Dangerous goods

No

14.1. UN number

Comments

Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments

Not relevant.

14.3. Transport hazard class(es)

Comments

Not relevant.

14.4. Packing group

Comments

Not relevant.

14.5. Environmental hazards

Comments Not relevant.

14.6. Special precautions for user

Special safety precautions for user Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no) No

SECTION 15: Regulatory information

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

References (laws/regulations) Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.
Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.
Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments.
Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap.
Norwegian regulation on declaration: FOR-2015-05-19-541, 01.06.2015 with later amendments.

Comments Contains no substances listed on the list of restricted substances or at the Authorisation list. Contains no SVHC - substances.

Declaration No. 608141

15.2. Chemical safety assessment

Chemical safety assessment performed Yes

SECTION 16: Other information

Supplier's notes The information contained in this SDS must be made available to all those who handle the product.

List of relevant H-phrases (Section 2 and 3) EUH 066 Repeated exposure may cause skin dryness or cracking.
H304 May be fatal if swallowed and enters airways.

CLP classification, comments Calculation method.

Key literature references and sources for data Suppliers Safety data sheet dated: 29.01.2025

Abbreviations and acronyms used ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
EWC: European Waste Code (a code from the EU's common classification system for waste)

EL0: Den effektive konsentrasjon av et stoff (lite løselig) som forårsaker 0% maksimal respons.

IATA: The International Air Transport Association

ICAO: The International Civil Aviation Organisation

IMDG: The International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Median concentration lethal to 50% of a test population.

LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.

LL0: The effective concentration of a substance (slightly soluble) which may cause death during exposure or within a fixed time after exposure to 0% of the animals subjected to a certain time (Lethal Loading rate).

NOEL: No Observed Effect Level. The highest tested dose or exposure level at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

PBT: Persistent, Bioaccumulative and Toxic

RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

Information added, deleted or revised

Sections being revised since previous version: 1-16

Checking quality of information

This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.

Version

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Prepared by

Kiwa Kompetanse, Norway by SR