



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

1.1 Product identifier:

Trade name: Eni CHF

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

Sector of use:

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

SU21 Consumer uses: Private households/general public/consumers

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category: PC17 Hydraulic fluids

Process category: PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/
large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/
large containers at dedicated facilities

PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed
systems

Environmental release category: ERC9a Wide dispersive indoor use of substances in closed systems

ERC9b Wide dispersive outdoor use of substances in closed systems

Application of the substance/
the preparation:

Hydraulic fluid

1.3 Details of the supplier of the safety data sheet

Manufacturer/supplier:

Eni Schmiertechnik GmbH
Paradiesstr. 14, D-97080 Würzburg
Tel. (+ 49) 931 - 900 98-0 Fax (+ 49) 931-98442

Advising/Support:

Technical Department, Tel. (+ 49) 931/900 98-145
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Section 2. Hazards identification.

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

GHS08 health hazard



Asp. Tox. 1

H304: May be fatal if swallowed and enters airways

GHS07



Acute Tox. 4

H332: Harmful if inhaled

2.2 Label elements:

Labelling according to Regulation
(EC) No. 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07

GHS08

Signal word:

Danger



Hazard determining components for labelling:	1-Decene, Dimer, Hydrogenated Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Hazard statements:	H332: Harmful if inhaled H304: May be fatal if swallowed and enters airways
Precautionary statements:	P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P271: Use only outdoors or in a well-ventilated area P261: Avoid breathing mist/vapours/spray P301+P310: IF SWALLOWED: Immediately call a doctor P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations
Additional information:	EUH208: Contains Ethanol, 2,2'-iminobis-, N-tallow alkylderivs. May produce an allergic reaction.
2.3 Other hazards:	
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.

Section 3. Composition/information on ingredients.

3.2 Mixtures:

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components		
CAS: 68649-11-6 NLP: 500-228-5 Reg.-No. 01-2119493069-28	1-Decene, Dimer, Hydrogenated Asp. Tox. 1, H304; Acute Tox. 4, H332	50 – 100%
CAS: 72623-86-0 EINECS: 276-737-9 Reg.-No. 01-2119474878-16	Lubricating oils (petroleum), C15-30-, hydrotreated neutral oil-based Asp. Tox. 1, H304	10 – 25%
CAS: 61791-44-4 EINECS: 263-177-5	Ethanol, 2,2'-iminobis-, N-tallow alkylderivs. Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	0,1 – 1,0%

Additional information: The highly refined mineral oil contains < 3% (w/w) DMSO extract, according to IP346. For the wording of the listed risk phrases refer to section 16.

Section 4. First aid measures.

4.1 Description of first aid measures:

General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

If swallowed or in case of vomiting, danger of entering the lungs.

Section 5. Fire fighting measures.

5.1 Extinguishing media:

Suitable extinguishing agents: CO₂, dry chemical or foam. Water can be used to cool and protect exposed material.



For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for fire fighters: Mouth respiratory protective device. Wear self-contained respiratory protective device.

Protective equipment: Wear fully protective suit.

Section 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Remove from the water surface (e. g. skim or suck off).

6.3 Reference to other sections: No dangerous substances are released.
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for disposal information.

Section 7. Handling and storage.

7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid the formation of oil haze.

Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities: Storage: Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

Section 8. Exposure controls/personal protection.

Additional information about design of technical facilities: No further data, see item 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace: Contains mineral oil. Under conditions which may generate mist, observe the OSHA-PEL of 5 mg/m³ and ACGIH STEL of 10 mg/m³.

DNEL (Derived No Effect Level) for workers:

68649-11-6 1-Decene, Dimer, Hydrogenated

Inhalativ	Acute – systemic effects, worker	60 mg/m ³ (worker)
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Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.



Protection of hands:	Wear gloves for the protection against chemicals according to EN 374. Oil resistant gloves Material of gloves: Nitrile rubber, NBR; PVC gloves, Neoprene gloves. Recommended thickness of the material: $\geq 0,35$ mm The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration of the glove material: For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Goggles recommended during refilling.
Body protection:	Protective work clothing.

Section 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties:

General information:

Appearance:

Form:	Liquid
Colour:	Dark green
Change in condition:	
Melting point/range:	Undetermined
Boiling point/range:	$> 300^{\circ}\text{C}$
Drip point:	
Pourpoint:	-60°C (ASTM D97)
Flashpoint:	156°C
Flammability (solid, gaseous):	Not applicable
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limits, lower/upper:	Not determined
Density at 20°C :	$0,825 \text{ g/cm}^3$
Solubility in/miscibility with water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	Not determined
Viscosity at 40°C :	$19 \text{ mm}^2/\text{s}$ (ASTM D445)
Solvent content:	
Organic solvents:	0,0 %
9.2 Other information:	No further relevant information available

Section 10. Stability and reactivity.

10.1 Reactivity:	No further relevant information available.
10.2 Chemical stability:	
Thermal decomposition / conditions to be avoided:	To avoid thermal decomposition do not overheat.
10.3 Possibility of hazardous reactions:	Reacts with strong oxidizing agents.



- 10.4 Conditions to avoid: No further relevant information available.
 10.5 Incompatible materials: No further relevant information available.
 10.6 Hazardous decomposition products: No dangerous decomposition products known.

Section 11. Toxicological information.

11.1 Information on toxicological effects:

Acute toxicity: Harmful if inhaled.

LD/LC50 values relevant for classification:		
68649-11-6 1-Decene, Dimer, Hydrogenated		
Oral	LD50	> 4000 mg/kg (Rat)
Dermal	LD50	> 3000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	11 mg/l (ATE)
72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based		
Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 (4 h)	> 5,53 mg/l (rat) (OECD 403)

Primary irritant effect:

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.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction: Product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

Germ cell mutagenicity: 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.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Section 12. Ecological information.

12.1 Toxicity:

Aquatic toxicity:

68649-11-6 1-Decene, Dimer, Hydrogenated	
LL/EL/IL50	> 1000 mg/l (Fish)
72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
LL/EL/IL50	> 100 mg/l (Fish)

12.2 Persistence and degradability: No further relevant information available.

Other information: The product is difficultly biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class: 2 (German Regulation) (self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.



Section 13. Disposal considerations.

13.1 Waste treatment methods:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue: 13 01 11* - synthetic hydraulic oils

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Section 14. Transport information.

14.1 UN-Number:

ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name:

ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard class(es):

ADR, ADN, IMDG, IATA:

Class: Void

14.4 Packaging group:

ADR, IMDG, IATA: Void

14.5 Environmental hazard:

Marine Pollutant: No

14.6 Special precautions for user: Not applicable

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

Not applicable

UN "Model Regulation": Void

Section 15. Regulatory information.

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

Directive 2012/18/EU:

Named dangerous substances – ANNEX I:

None of the ingredients is listed.

National regulations:

Water hazard class: WGK 2 (self-assessment): hazardous for water

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

Section 16. Other information.

The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H332 Harmful if inhaled
H412 Harmful to aquatic life with long lasting effects

Changes: 2, 3, 7, 8, 10, 11, 12, 15, 16

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.

The information in this sheet is according to our best knowledge at the date of printing.