

Safety Data Sheet

according to Regulation (EC) No 1907/2006

XONOL HDF

Revision date: 13.03.2019

Product code: XON000009

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

1.1. Product identifier

XONOL HDF

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

Use of the substance/mixture

High-performance metal working, cooling and lubricating fluid, mineral oil free.

1.3. Details of the supplier of the safety data sheet

Company name:	Hiessl Schmiertechnik GmbH	
Street:	Am See 16	
Place:	D- 72663 Grossbettlingen	
Telephone:	+49 (0)7022-244423-0	Telefax: +49 (0)7022-244423-20
Contact person:	Jürgen Hiessl	Telephone: +49 (0)7022-244423-10
Internet:	www.hiessl.de	
Responsible Department:	Department of Quality Assurance, Safety and Environmental Protection	

1.4. Emergency telephone number:

Accessible during office between 8.00 am to 4:30 pm.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is in accordance with Regulation (EC) No. 1272/2008 [CLP] does not require labeling

2.2. Label elements

Additional advice on labelling

Labelling according to CLP Regulation (Regulation (EC) Nr.1272 / 2008, as amended): not applicable

2.3. Other hazards

Prevent from entering sewers or surface and ground water. No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of the substances listed below and non-hazardous additions.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
9003-13-8	Polypropylene glycol monobutyl ether			43,5 %
	500-003-1			
98679-19-7	Amine neutralised phosphoric acid ester			0,44 %
	308-859-6			
	Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 2; H302 H314 H411			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

Remove contaminated clothing immediately and dispose off safely.

After inhalation

In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Medical treatment necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Foam. Carbon dioxide (CO₂). Water spray. Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO_x). Soot and other organic products.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours, fog, aerosols. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid building up of oil fog and do not spill ventilate the working place sufficiently. Keep container tightly closed in a cool and dry place. Avoid contact with skin and eyes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

Protect from heating up/ overheating. Protect from entering the ground.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

The floor should be leak tight, jointless and not absorbent. Keep only in the original container.

Hints on joint storage

Do not storage with oxidants. Keep away from food, drink and animal feedingstuffs.

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Further information on storage conditions

Shafts and sewers must be protected from entry of the product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Does not contain substances above concentration limits fixing an occupational exposure limit.

Protective and hygiene measures

Do not inhale vapours. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

Eye/face protection

Use safety goggles in case of spraying danger Eye protection: not required.

Hand protection

In case of prolonged or frequently repeated skin contact:

Skin protection

oil- resistant protective clothes in case of spraying danger. Body protection: not required.

Respiratory protection

Not necessary when used in ventilated room. Brathing protection if aerosol or fog build up. Respiratory protection necessary at: aerosol or mist generation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light blue
Odour:	characteristic

Test method

Changes in the physical state

Flash point:	>195 °C	DIN 51376
Lower explosion limits:	Not feasible	
Upper explosion limits:	Not feasible	
Ignition temperature:	>360 °C	DIN 51794
Vapour pressure: (at 20 °C)	<3 hPa	DIN 51754
Density (at 20 °C):	0,866 g/cm³	DIN 51757
Water solubility:	insoluble	

Solubility in other solvents

Soluble in: white-spirit. Petroleum.

Viscosity / kinematic: (at 20 °C)	63 mm²/s	DIN 51562
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

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10.2. Chemical stability

Cooling lubricants are stable, as long as they are properly stored (point 7) and get along in original locked bundles with most other products.

10.3. Possibility of hazardous reactions

No decomposition when used properly.

10.4. Conditions to avoid

Flames, sparks and warmth avoid,

10.5. Incompatible materials

strong oxidants.

10.6. Hazardous decomposition products

No decomposition when used properly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

In accordance with the defaults of the raw material manufacturers no realizations over Toxicokinetics, metabolisms and distribution for this product are present.

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9003-13-8	Polypropylene glycol monobutyl ether				
	oral	LD50 >2000 mg/kg	Rat.	Lieferanten - SDB	
	dermal	LD50 >8000 mg/kg	Rabbit.	Lieferanten - SDB	
98679-19-7	Amine neutralised phosphoric acid ester				
	oral	LD50 2000 mg/kg	Rat.		

Irritation and corrosivity

according to the raw material information an irritation is not likely.

Sensitising effects

Sensibilization eye:

Sensibilization skin:

Carcinogenic/mutagenic/toxic effects for reproduction

No special dangers are known if the product is used correctly and if the usual precautions are respected when handling mineral oil products. Longterm experiments do not indicate carcinogenic effects.

STOT-repeated exposure

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Non-toxic for aquatic organisms, according to the raw material information. no harm to water organisms up to the tested concentration.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
98679-19-7	Amine neutralised phosphoric acid ester					
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Brachydanio rerio	

12.2. Persistence and degradability

Some of the components are biodegradable.

12.3. Bioaccumulative potential

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

12.4. Mobility in soil

Swim on the surface of the water.

12.5. Results of PBT and vPvB assessment

The PBT features are material specific and cannot be mentioned for the mixture.

12.6. Other adverse effects

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal number of used product

120110 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; synthetic machining oils; hazardous waste

Contaminated packaging

Contaminated packaging must be emptied well - after respective cleaning it can be used for recycling purposes. Packaging that cannot be cleaned has to be disposed of similar to the material. Cleaned containers may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: ./.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): ./.

Inland waterways transport (ADN)

14.1. UN number: ./.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): ./.

Marine transport (IMDG)

14.1. UN number: ./.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): ./.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: ./.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): ./.

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

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): Volatile organic compounds (VOC) content in percent by weight: 0%

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

Observe the instructions of the Mineral Oil Commercial Association concerning precautions when handling liquid mineral oil products and lubricants.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information in this safety data sheet is based on our actual knowledge and experiences and shall describe the safety requirements of the product. This information does not guarantee the properties of the described product. For further information: Quality assurance department and laboratory Data arise from reference works and literature.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)