



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

- 1.1 Product identifier

- **Trade name:** Hydraulicfluid HVI Extra 380 NF

- **Article number:** 39338

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

No further relevant information available.

- **Application of the substance / the mixture** hydraulic oil

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Maier & Korduletsch Schmierstoff GmbH
Oskar-von-Miller-Str. 2a
94474 Vilshofen
Telefon: 0049 8541 9605-88

- **Further information obtainable from:** Product safety department

- 1.4 Emergency telephone number:

Giftinformationszentrum Nord (Deutschland)
Pharmakologisch-toxikologisches Servicezentrum der Universität Göttingen
Robert-Koch-Str. 40
D-37075 Göttingen
Tel.: 0551-19240 (24 Std. am Tag)

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

Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 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 of labelling:

Distillates (petroleum), hydrotreated light naphthenic
Distillates (petroleum), hydrotreated middle
Kohlenwasserstoffe, C12-C15, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling

- Hazard statements

H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 1)

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

- P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- 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 nonhazardous additions.

- Dangerous components:

CAS: 64742-53-6 EINECS: 265-156-6 Reg.nr.: 01-2119480375-34	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1, H304	50 - 100%
CAS: 64742-46-7 EINECS: 265-148-2 Index number: 649-221-00-X Reg.nr.: 01-2119489867-12	Distillates (petroleum), hydrotreated middle Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥ 10 - < 25%
EC number: 920-107-4 Reg.nr.: 01-2119453414-43	Kohlenwasserstoffe, C12-C15, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten Asp. Tox. 1, H304	10%

- Additional information:

For the wording of the listed hazard phrases refer to section 16.

For all ingredients, in which no REACH registration number has been specified, they are pre-registered or exempt from registration.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information:** Personal protection for the First Aider.
 - **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
 - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
 - **After eye contact:** Rinse opened eye for several minutes under running water.
 - **After swallowing:** If symptoms persist consult doctor.

- 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

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 2)

- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 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.

- 6.4 Reference to other sections

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 No special precautions are necessary if used correctly.

- 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: No special requirements.

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

- Further information about storage conditions: Only store in the original packaging

- Recommended storage temperature: Storage at +5°C to +35°C. Keep away from frost!

- Storage class: 10

- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs
CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

Inhalative	DNEL Long-term – inhalation, local effects	5.4 mg/m ³ (worker)
------------	--	--------------------------------

CAS: 64742-46-7 Distillates (petroleum), hydrotreated middle

Dermal	DNEL Long-term – dermal, systemic effects	2.9 mg/Kg bw/Tag (worker)
--------	---	---------------------------

Inhalative	DNEL Long-term – inhalation, systemic effects	16 mg/m ³ (worker)
------------	---	-------------------------------

	DNEL Einatmen	5000 mg/m ³ (worker)
--	---------------	---------------------------------

- 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.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.
 Use skin protection cream for skin protection.
 Do not carry product impregnated cleaning cloths in trouser pockets.

- Respiratory protection: Not required.

- Protection of hands:

Protective gloves
 Oil resistant gloves
 Check protective gloves prior to each use for their proper condition.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 3)

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: > 0,2 mm

- Penetration time of glove material > 480 min.

- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber, NBR

- For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

- Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
Form: Liquid

Colour: Red

- Odour: Mild

- Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition
Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

- Flash point: > 100 °C (ISO 2592 (COC))

- Flammability (solid, gas): Not applicable.

- Ignition temperature: > 200 °C

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:
Lower: 0.6 Vol %

Upper: 6.5 Vol %

- Vapour pressure: Not determined.

- Density at 15 °C: 0.866 g/cm³ (DIN 51 757)

- Relative density Not determined.

- Vapour density Not determined.

- Evaporation rate Not determined.

- Solubility in / Miscibility with
water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:
Dynamic: Not determined.

Kinematic at 40 °C: 16.3 mm²/s

kinematic at 100 °C 6.3 mm²/s (DIN 51 562)

- 9.2 Other information No further relevant information available.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 4)

- pour point	< -50 °C
---------------------	----------

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **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** Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50/ 4h	> 5.53 mg/L (rat)

CAS: 64742-46-7 Distillates (petroleum), hydrotreated middle

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/ 4h	> 1.78 mg/L (rat)

Kohlenwasserstoffe, C12-C15, n-Alkane,Isoalkane, Cyclene, < 2% Aromaten

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50/ 4h	> 5000 mg/L (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **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.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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:

CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

LC 50	> 100 mg/L (fish)
-------	-------------------

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 5)

IC 50	> 100 mg/L (alga) (48 h)
CAS: 64742-46-7 Distillates (petroleum), hydrotreated middle	
LC50/ 96h	1.13 - 65 mg/L (fish)
NOEL 0	14 mg/l (fish)
	0.163 mg/l (Invertebrate animals) (21 Tage)
Kohlenwasserstoffe, C12-C15, n-Alkane,Isoalkane, Cyclene, < 2% Aromaten	
EC50	> 1000 mg/L (alga)
	> 1000 mg/L (Daphnia magna)
LC50/ 96h	> 1000 mg/L (fish)
- 12.2 Persistence and degradability	
Kohlenwasserstoffe, C12-C15, n-Alkane,Isoalkane, Cyclene, < 2% Aromaten	
Biological degradation/ 28d	67.6 % (-)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms

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 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 01 00	waste hydraulic oils
13 01 10*	mineral based non-chlorinated hydraulic oils

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Allocation of the waste code numbers must be realized under considerations of existing sector specifics and processes.

The above allocation is a recommendation for the disposal of the product after recommended use.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**

- **ADR, ADN, IMDG, IATA** Void

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 6)

- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA	
- Class	Void
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol 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**
- **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 of labelling:**
Distillates (petroleum), hydrotreated light naphthenic
Distillates (petroleum), hydrotreated middle
Kohlenwasserstoffe, C12-C15, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling
- **Hazard statements**
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Waterhazard class:**
Water hazard class 2 (Self-assessment): obviously hazardous to water (according to AwSV)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.04.2018

Version number 3

Revision: 09.04.2018

Trade name: Hydraulicfluid HVI Extra 380 NF

(Contd. of page 7)

SECTION 16: Other information

This 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**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Product safety department

- **Contact:** Mrs. Peter

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3