

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

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

- **Product identifier**
- **Trade name:** **KAT SHF 11 PRO**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Power Steering Fluid
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Kistenmacher Auto + Technik GmbH & Co. KG
Lindenstraße 2-10
21244 Buchholz
Germany
Tel.: +49 - (0) 4181 - 99054 0, Telefax: +49 - (0) 4181 - 99054 40
kat@kat-germany.de, www.kat-germany.de
- **Emergency telephone number:** +49 - (0) 4181 - 99054 0

2 Hazards identification

- **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.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **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/ doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: **KAT SHF 11 PRO**

(Contd. of page 1)

3 Composition/information on ingredients

- **Chemical characterisation: Preparation**
- **Description:** Mixture of synthetic base oils and additives.

- **Dangerous components:**

848301-69-9	Distillates (Fischer-Tropsch), heavy, C18-50 – branched, cyclic and linear	50-<100%
-------------	--	----------

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **General information:**
Consult a doctor and show this safety data sheet if symptoms occur or in cases of doubt.
Immediately remove any clothing soiled by the product.
Take affected persons out into the fresh air.
Do not leave affected persons unattended.
Personal protection for the First Aider.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
In case of inhaling spray mist consult a doctor and show packaging or safety data sheet.
- **After skin contact:**
Wash contaminated skin with water and soap and rinse thoroughly. Remove contaminated clothing. Get medical attention if symptoms occur.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse mouth with water. Do NOT induce vomiting! Danger of aspiration! Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
In case of swallowing and subsequent vomiting: risk of aspiration! Symptoms: cough, breathlessness, cyanosis, stagnant or thrusting respiration, intercostal and auscultatory rhonchi and wheezing. Possibly only after 24-48 h respiratory insufficiency and chemical pneumonia can occur.
Further symptoms: unconsciousness, depression of central nervous system, headache, nausea, xerotic skin, vertigo.
- **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically. Give oxygen, if necessary. Regulate circulatory functions, possibly shock treatment. Subsequent monitoring for pneumonia and lung oedema.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic/irritant gases is possible during heating or in case of fire.
Products of decomposition see chapter 10.
- **Advice for firefighters** suitable fire suppressants: carbon dioxide (CO₂), foam, water, dry chemical
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

GB

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: **KAT SHF 11 PRO**

(Contd. of page 2)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Keep away from open flames, hot surfaces and sources of ignition.

Avoid contact with skin and eyes.

Do not inhale vapours and aerosols.

Close leakage without taking personal risks.

- **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

In case of seepage into the ground inform responsible authorities.

- **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.

- **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.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Prevent contact with eyes.

Prevent longer or repeated contact with skin.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep away from sources of ignition - No smoking.

Particular danger of slipping on leaked/spilled product.

Remove contaminated clothing.

Keep away from food, drink and animal feeding stuffs.

Wash hands before brakes and end of work

Do not eat, drink or smoke while working.

- **Information about fire - and explosion protection:**

Keep away ignition sources - Do not smoke.

Do not spray onto a naked flame or any incandescent material.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

- **Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from food, beverage and feedingstuff.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

- **Storage class:** 10 - flammable liquid, flashpoint >60 °C

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:** TWA: 5 mg/m³ (oil mist)

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: KAT SHF 11 PRO

(Contd. of page 3)

· **Additional information:** During the making the lists valid were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device only when aerosol or mist is formed.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Use solvent resistant gloves. Suitable are gloves from: nitrile rubber (thickness >0,38 mm, breakthrough time > 480 min).

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 can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Gauze goggles recommendable

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Green

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **Change in condition**

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: Not determined.

· **Flash point:** >150 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** Not determined.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: KAT SHF 11 PRO

(Contd. of page 4)

· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Oxidising properties	Non oxidising.
· Density at 20 °C:	0.83 g/cm ³
· Relative density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Kinematic at 40 °C:	18 mm ² /s
· Solvent content: Organic solvents:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** Stable under recommended storage conditions.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Heat, flames and sparks.
Keep away from strong oxidants as well as reducing agents.
- **Incompatible materials:** strong oxidants
- **Hazardous decomposition products:**
In case of fire:
CO₂, CO, NO_x, SO_x
Under certain conditions of fire, other toxic/irritant substances may form.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

Oral	LD50	>5000 mg/kg (calculation)
Dermal	LD50	>5000 mg/kg (calculation)

- **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 (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.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: KAT SHF 11 PRO

(Contd. of page 5)

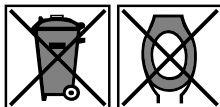
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** Little mobility expected in soil.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**



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

Must be specially treated adhering to official regulations.

- **European waste catalogue**

13 01 11*	synthetic hydraulic oils
-----------	--------------------------

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · ADR, ADN, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · ADR, IMDG, IATA | not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 13.04.2019

Revision: 13.04.2019

Trade name: KAT SHF 11 PRO

(Contd. of page 6)

· Transport/Additional information:**· IMDG****· Limited quantities (LQ)** *not any***· UN "Model Regulation":** *not regulated***15 Regulatory information**

- **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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Asp. Tox. 1: Aspiration hazard – Category 1