SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



Klüberfluid NH1 4-005

Version 1.0 Revision Date 12.10.2017 Print Date 12.10.2017

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

1.1 Product identifier

Product name : Klüberfluid NH1 4-005

Article-No. : 029066

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

Use of the : Lubricating oil

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Klüber Lubrication München

Geisenhausenerstr. 7 81379 München Deutschland

Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com

E-mail address : mcm@klueber.com

Responsible/issuing person Material Compliance Management

National contact : Klüber Lubrication Deutschland

Geisenhausenerstraße 7

81379 München Deutschland

Tel.: +49 89 7876 0 Fax: +49 89 7876 565

customer.service.de@klueber.com

www.klueber.com

1.4 Emergency telephone number

+49 89 7876 700 (24 hrs)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H332: Harmful if inhaled.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

2.2 Label elements





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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters

airways.

H332 Harmful if inhaled.

Precautionary statements : **Prevention:**

P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated

area.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel

unwell.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label: 68649-11-6 Dec-1-ene, dimers, hydrogenated

2.3 Other hazards

3. Composition/information on ingredients

3.1 Substances

Chemical nature : Synthetic hydrocarbon oil

Chemical name	CAS-No. EINECS-No. / ELINCS No. Index-No. Registration number	Concentration [%]
Dec-1-ene, dimers,	68649-11-6	>= 90 - <= 100
hydrogenated	/ 01-2119493069-28-XXXX	

4. First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical



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advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes. Seek medical advice.

If swallowed : Move the victim to fresh air.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water.

Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause

damage.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Headache

Nausea

Aspiration may cause pulmonary oedema and pneumonitis.

Risks : Risk of product entering the lungs on vomiting after ingestion.

Health injuries may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

: Fire may cause evolution of:

firefighting

Carbon oxides





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5.3 Advice for firefighters

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained

breathing apparatus.

Exposure to decomposition products may be a hazard to

health.

Further information : Standard procedure for chemical fires.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment.

Ensure adequate ventilation.

Do not breathe vapours or spray mist.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Prevent further leakage or spillage if safe to do so.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not use in areas without adequate ventilation.

Do not breathe vapours or spray mist.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eyes or mouth or on skin.

Do not get on skin or clothing.



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Do not ingest. Do not repack.

Do not re-use empty containers.

These safety instructions also apply to empty packaging which

may still contain product residues. Keep container closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Store in original container.

Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

German storage class : 10 Combustible liquids

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

Dec-1-ene, dimers, : End Use: Industrial use hydrogenated Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 60 mg/m3

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Filter type A-P

Hand protection : For prolonged or repeated contact use protective gloves.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

The break through time depends amongst other things on the





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material, the thickness and the type of glove and therefore has

to be measured for each case.

In case of contact through splashing:

: Nitrile rubber

Protective index Class 1

Eye protection : Safety glasses with side-shields conforming to EN166

: Wash face, hands and any exposed skin thoroughly after Hygiene measures

handling.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water

courses.

Prevent further leakage or spillage if safe to do so.

Local authorities should be advised if significant spillages

cannot be contained.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless Odour characteristic Odour Threshold : No data available рΗ : No data available Melting point/range : No data available

: No data available Boiling point/boiling range : > 150 °C, Test Method: open cup Flash point

Evaporation rate : No data available Flammability (solid, gas) : Not applicable Lower explosion limit : No data available Upper explosion limit : No data available Vapour pressure : < 2,5 hPa, 20 °C Relative vapour density : No data available : 0,79 g/cm3, 20 °C Density



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Water solubility : insoluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : 5 mm2/s, 40 °C
Explosive properties : Not explosive
Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available Bulk density : No data available

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

Hazardous decomposition : No decomposition if stored and applied as directed.

products

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : This information is not available.

Acute inhalation toxicity : Harmful by inhalation.

Acute dermal toxicity : This information is not available.





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Skin corrosion/irritation : This information is not available.

Serious eye damage/eye

irritation

This information is not available.

Respiratory or skin

sensitisation

: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available
Genotoxicity in vivo : No data available
Carcinogenicity : No data available
Reproductive toxicity : No data available
Teratogenicity : No data available

Repeated dose toxicity : This information is not available.

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

: May be fatal if swallowed and enters airways.

Further information : Information given is based on data on the components and

the toxicology of similar products.

Components:

Dec-1-ene, dimers, hydrogenated:

Acute oral toxicity : LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 401, GLP:

yes

Acute inhalation toxicity : LC50: 1,17 mg/l, 4 h, Rat, dust/mist, OECD Test Guideline

403, GLP: yes

Acute dermal toxicity : LD50: > 3.000 mg/kg, Rabbit, OECD Test Guideline 402, The

substance or mixture has no acute dermal toxicity

Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404

Serious eye damage/eye

irritation

: Rabbit, Result: No eye irritation, Classification: No eye

irritation, OECD Test Guideline 405

Respiratory or skin

sensitisation

: Maximisation Test, Guinea pig, Result: Does not cause skin

sensitisation., Classification: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes

sensitisation., OECD Test Guideline 406, GLP. ye

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

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

No data available



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Toxicity to daphnia and other

aquatic invertebrates

No data available

Toxicity to algae

No data available

Toxicity to bacteria

No data available

Components:

Dec-1-ene, dimers, hydrogenated:

Toxicity to fish : LC50: > 1.000 mg/l, 96 h, Oncorhynchus mykiss (rainbow

trout), semi-static test, OECD Test Guideline 203, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 1.000 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes

Toxicity to algae : EC50: > 1.000 mg/l, 72 h, Scenedesmus capricornutum

(fresh water algae), static test, OECD Test Guideline 201,

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 125 mg/l, 21 d, Daphnia magna (Water flea), OECD

Test Guideline 211, GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability

No data available : No data available

Physico-chemical removability **Components:**

Dec-1-ene, dimers, hydrogenated:

Biodegradability : Result: Not rapidly biodegradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.4 Mobility in soil

Product:

Mobility : No data available Distribution among : No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance is not considered to be persistent,





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> bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Dec-1-ene, dimers, hydrogenated:

This substance is not considered to be persistent, Assessment

> bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.6 Other adverse effects

Product:

Additional ecological

information

: No information on ecology is available.

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging Empty containers can be landfilled, when in accordance with

the local regulations.

14. Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class **ADR**





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Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59).

: This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard

Legislation

: 96/82/EC Update:

Not applicable

: 2012/18/EU Update:

Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated

pollution prevention and

control)

: Volatile organic compounds (VOC) content: 100 %

VOC content excluding water

Water contaminating class

(Germany)

: WGK 1: slightly water endangering

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Classification according to appendix 3

ZDE WGK

Update: 2013-11-11

TA Luft List (Germany) : Total dust: Not applicable

Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not

applicable

Organic Substances: Portion other substances: 100 %

Carcinogenic substances: Not applicable

Mutagenic: Not applicable

Toxic to reproduction: Not applicable

15.2 Chemical safety assessment

This information is not available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

Further information

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