Klüberfood NH1 94-6000

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

1.1 Product identifier

Product name	:	Klüberfood NH1 94-6000
Article-No.	:	096115

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

Use of the Substance/Mixture	:	Grease
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 Great Britain Limited Unit 10 Pennine Business Park Longbow Close Huddersfield West Yorkshire HD2 1GQ Great Britain Tel: +44-1422-205115 Fax: +44-1422-206073 sales@uk.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)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request.
EUH208 Contains: Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. , Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : special calcium soap
Synthetic hydrocarbon oil
Mineral oil.

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Dec-1-ene, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated	68037-01-4, 1000172-11-1		Asp. Tox. 1; H304	>= 50 - < 70
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 / 01-2119488992-18-XXXX	Xi; R43	Skin Sens. 1B; H317	>= 1 - < 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4 / 01-2119492627-25-XXXX	Xi; R43	Skin Sens. 1B; H317	>= 1 - < 10
Substances with a workplace exposure limit :				
calcium carbonate	471-34-1 207-439-9			>= 1 - < 10

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

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 breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get medical attention. In case of contact, immediately flush skin with plenty of water.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	No information available.
Risks	:	None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	No information available.

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 firefighting	:	Fire may cause evolution of: Carbon oxides Metal oxides Sulphur oxides

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 the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust. 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. 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	:	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

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	:	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.

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.

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

Components	CAS-No.	Value type	Control parameters	Update	Basis
calcium carbonate	471-34-1	TWA	10 mg/m3	2011-12-01	GB EH40
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
calcium carbonate	471-34-1	TWA	4 mg/m3	2011-12-01	GB EH40
Further information:	15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				

DNEL

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0.66 mg/m3 End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects

Value: 3.33 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0.33 mg/m3

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 1.667 mg/kg

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 0.8333 mg/kg

PNEC

Sulfonic acids, petroleum, calcium salts	:	Fresh water Value: 1 mg/l Marine water Value: 1 mg/l Intermittent use/release Value: 10 mg/l Microbiological Activity in Sewage Treatment Systems Value: 1000 mg/l Fresh water sediment Value: 226000000 Marine sediment Value: 226000000 Soil Value: 271000000 Oral Value: 16.667
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	:	Fresh water Value: 1 mg/l Marine water Value: 1 mg/l Intermittent use/release Value: 10 mg/l Microbiological Activity in Sewage Treatment Systems Value: 100 mg/l

Fresh water sediment
Value: 723500000

Marine sediment
Value: 723500000

Soil
Value: 868700000

Oral
Value: 16.667

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation. Filter type P
Hand protection	:	Wear 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 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	:	Tightly fitting safety goggles
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after 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. 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

Form	:	paste
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapour pressure	:	< 0.001 hPa, 20 °C
Relative vapour density	:	No data available
Density	:	0.88 g/cm3, 20 °C
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
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 products	:	No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	:	This information is not available.
Acute inhalation toxicity	:	This information is not available.
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	:	This information is not available.
Further information	:	Information given is based on data on the components and the toxicology of similar products.

Components:

Dec-1-ene, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated :

Acute oral toxicity	:	LD50: > 5,000 mg/kg, Rat
Acute dermal toxicity	:	LD50: > 2,000 mg/kg, Rat, 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, GLP: yes
Serious eye damage/eye irritation	:	Rabbit, Result: No eye irritation, Classification: No eye irritation, OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	:	Maximisation Test (GPMT), Guinea pig, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes
Germ cell mutagenicity		
Genotoxicity in vitro	:	Ames test, Result: negative, Mutagenicity (Escherichia coli - reverse mutation assay), GLP: yes
Assessment	:	Animal testing did not show any mutagenic effects.
Aspiration toxicity	:	May be fatal if swallowed and enters airways.

Sulfonic acids, petroleum, calcium salts :

Acute oral toxicity	:	LD50: > 5,000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes
Acute dermal toxicity	:	LD50: > 4,000 mg/kg, Rabbit, OECD Test Guideline 402, GLP: yes
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
Respiratory or skin sensitisation	:	Buehler Test, Guinea pig, Result: The product is a skin sensitiser, sub-category 1B., Classification: The product is a skin sensitiser, sub-category 1B.
Germ cell mutagenicity		
Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
STOT - single exposure	:	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	:	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts :

Acute oral toxicity	:	LD50: > 5,000 mg/kg, Rat, OECD Test Guideline 401
Acute dermal toxicity	:	LD50: > 5,000 mg/kg, Rabbit, OECD Test Guideline 402
Skin corrosion/irritation	:	Rabbit, Result: No skin irritation, Classification: No skin irritation
Serious eye damage/eye	:	Rabbit, Result: No eye irritation, Classification: No eye

irritation		irritation, OECD Test Guideline 405
Respiratory or skin sensitisation	:	Buehler Test, Guinea pig, Result: The product is a skin sensitiser, sub-category 1B., Classification: The product is a skin sensitiser, sub-category 1B.
Germ cell mutagenicity		
Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
STOT - single exposure	:	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	:	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

calcium carbonate :

Acute oral toxicity	:	LD50: 6,450 mg/kg, Rat
Skin corrosion/irritation	:	Rabbit, Result: No skin irritation, Classification: No skin irritation, OECD Test Guideline 404, GLP: yes
Serious eye damage/eye irritation	:	Rabbit, Result: No eye irritation, Classification: No eye irritation, OECD Test Guideline 405, GLP: yes
Respiratory or skin sensitisation	:	Mouse, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation., Tested according to Annex V of Directive 67/548/EEC.
Further information	:	Information given is based on data on the components and the toxicology of similar products.

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	No data available
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, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated :

Toxicity to fish	:	LC50: > 1,000 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), 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	:	ErC50: > 1,000 mg/l, 72 h, Scenedesmus capricornutum (fresh water algae), Growth inhibition, OECD Test Guideline 201, GLP: yes
Toxicity to bacteria	:	EC50: > 1,000 mg/l, 3 h, Bacteria, Respiration inhibition, OECD 209, GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 125 mg/l, 21 d, Daphnia magna (Water flea)

Sulfonic acids, petroleum, calcium salts :

Toxicity to fish	:	LC50: > 10,000 mg/l, 96 h, Cyprinodon variegatus (sheepshead minnow), static test, OECD Test Guideline 203, GLP: yes, No toxicity at the limit of solubility
Toxicity to bacteria	:	EC50: > 10,000 mg/l, 3 h, activated sludge, static test, OECD Test Guideline 209, GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity	:	This product has no known ecotoxicological effects., No toxicity at the limit of solubility

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts :

Toxicity to fish	:	LC50: > 10,000 mg/l, 96 h, Pimephales promelas (fathead minnow), static test, OECD Test Guideline 203, No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 1,000 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202

Ecotoxicology Assessment

Chronic aquatic toxicity	:	This product has no known ecotoxicological effects., No toxicity at the limit of solubility

calcium carbonate :

Toxicity to fish	:	LC50: > 56,000 mg/l, 96 h, Gambusia affinis (Mosquito fish)
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability	:	No data available
Physico-chemical removability	:	No data available

Components:

Dec-1-ene, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated :

Biodegradability : Primary biodegradation, Result: Not readily biodegradable., activated sludge, OECD Test Guideline 301B

Sulfonic acids, petroleum, calcium salts :

Biodegradability : aerobic, 8 %, Result: Not rapidly biodegradable, Exposure time: 28 d, activated sludge, OECD Test Guideline 301F, GLP: yes

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts :

Biodegradability : Result: Not rapidly biodegradable

calcium carbonate :

Biodegradability :

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation :

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Components:

Dec-1-ene, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated :

Bioaccumulation : Bioconcentration factor (BCF): > 10

Sulfonic acids, petroleum, calcium salts :

Bioaccumulation :

Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts :

Bioaccumulation :

Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

12.4 Mobility in soil

Product:

Mobility : No data available

Distribution among environmental compartments : No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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, homopolymer, hydrogenated + 7-methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated :
Assessment : Non-classified PBT substance, Non-classified vPvB substance
Sulfonic acids, petroleum, calcium salts :
Assessment : Non-classified PBT substance, Non-classified vPvB substance
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts :
Assessment : Non-classified PBT substance, Non-classified vPvB substance
calcium carbonate :
Assessment : Non-classified PBT substance, Non-classified vPvB substance

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
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

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R43	May cause sensitisation by skin contact.

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

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.

Further information

Klüberfood NH1 94-6000