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



ISOFLEX NBU 15

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

1.1 Product identifier

Product name : ISOFLEX NBU 15

Article-No. : 004026

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

Use of the : Grease

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

KLÜBER LUBRICATION MÜNCHEN

Geisenhausenerstrasse 7 D-81379 München

Deutschland

Tel: +49 (0) 897876-0 Fax: +49 (0) 897876-333

E-mail address : mcm@klueber.com

Responsible/issuing person Material Compliance Management

National contact : Klüber Lubrication Nordic A/S filial i Finland

Hämeentie 3 00530 Helsinki

Finland

+358-207-497 970 Fax: +358-207-497 971 klueber.fi@sk.klueber.com

1.4 Emergency telephone number

09-471 977 Myrkytystietokeskus (24 h) tai 112

0049 (0) 897876-700 (24hrs)

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)

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



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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: N-alkylated benzotriazoleMay produce an allergic reaction.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.

Synthetic hydrocarbon oil

ester oil

barium complex soap

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	>= 10 - < 20
Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1 270-128-1	R52/53	Aquatic Chronic 3; H412	>= 1 - < 2,5

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,

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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 extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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

Nitrogen oxides (NOx)

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

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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

Contains no substances with occupational exposure limit values.

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

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



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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

Safety glasses with side-shields conforming to EN166

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

Flash point

Flammability (solid, gas)

9.1 Information on basic physical and chemical properties

Form : paste

Colour : beige

Odour characteristic Odour Threshold : No data available

Hq : not applicable

Melting point/range Boiling point/boiling range : No data available

Evaporation rate : No data available

Combustible Solids

No data available

: No data available

: not applicable



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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 : 0,99 g/cm3, 20 °C

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
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Oxidizing properties : No data available

9.2 Other information

Sublimation point : not applicable

Bulk density : not applicable

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

No decomposition if stored and applied as directed.

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



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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.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene :

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

Acute dermal toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402

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

irritation

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Serious eye damage/eye

irritation

sensitisation

: rabbit, Result: No eye irritation, Classification: No eye irritation

Respiratory or skin guinea pig, Result: Does not cause skin sensitisation.,

Classification: Does not cause skin sensitisation., OECD Test

Guideline 406

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:

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

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

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

(Chronic toxicity)

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene :

: LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish), OECD Test Toxicity to fish

Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 51 mg/l, 48 h, Daphnia magna (Water flea),

Immobilization, OECD 202 T1

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects. according to Regulation (EC) No. 1907/2006 - FI



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12.2 Persistence and degradability

Product:

Biodegradability

No data available

Physico-chemical

: No data available

removability 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

12.3 Bioaccumulative potential

Product:

Bioaccumulation

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor

very bioaccumulating (vPvB).

Components:

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

trimer, hydrogenated:

Bioaccumulation : Bioconcentration factor (BCF): > 10

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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 : No data available

environmental compartments

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

12.6 Other adverse effects

Product:

Additional ecological

information

: No information on ecology is available.

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



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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

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



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Not dangerous goods

14.6 Special precautions for user

No data available

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

Not available

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

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

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

H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

Further information

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