

SAFETY DATA SHEET

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



OKS 3710

Version 1.1

Revision Date 27.03.2017

Print Date 27.03.2017

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

1.1 Product identifier

Product name : OKS 3710

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

Use of the Substance/Mixture : Lubricant
Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599

E-mail address : mcm@oks-germany.com
Responsible/issuing person

National contact :

1.4 Emergency telephone number

+49 8142 3051 517

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4
Aspiration hazard, Category 1
H332: Harmful if inhaled.
H304: May be fatal if swallowed and enters airways.

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

Harmful
R20: Harmful by inhalation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

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	H332	Harmful if inhaled.
Precautionary statements	Prevention: P261 P271	Avoid breathing vapours. Use only outdoors or in a well-ventilated area.
	Response: P301 + P310 P304 + P340 + P312	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
	P331 Storage: P405	Do NOT induce vomiting. 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

3.2 Mixtures

Chemical nature : Synthetic hydrocarbon 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, dimers, hydrogenated	68649-11-6 / 01- 2119493069- 28-XXXX	Xn; R20 Xn; R65	Acute Tox. 4; H332 Asp. Tox. 1; H304	>= 50 - < 70
Dec-1-ene, homopolymer, hydrogenated + 7- methylpentadecane; tetra-1-decen, dimer, trimer, hydrogenated	68037-01-4, 1000172-11-1		Asp. Tox. 1; H304	>= 30 - < 50

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

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medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical 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



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Specific hazards during firefighting : Fire may cause evolution of:
Carbon 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 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

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handling the product.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
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, hydrogenated : End Use: Industrial use
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

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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 : 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.
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
pH : No data available
Melting point/range : No data available
Boiling point/boiling range : 310 °C
Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapour pressure : < 0,001 hPa, 20 °C

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Relative vapour density	: No data available
Density	: 0,80 g/cm ³ , 20 °C
Water solubility	: immiscible
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	: 7,25 mm ² /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 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.

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Acute inhalation toxicity	: Acute toxicity estimate: 1,84 mg/l, 4 h, dust/mist, Calculation method
	: Harmful by inhalation.
Acute dermal 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	: 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
Aspiration toxicity	: May be fatal if swallowed and enters airways.

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

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	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, 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.

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, 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

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

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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)

12.2 Persistence and degradability

Product:

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

Components:

Dec-1-ene, dimers, hydrogenated :

Biodegradability	: Result: Not rapidly biodegradable
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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
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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).
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Components:

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

Bioaccumulation	: Bioconcentration factor (BCF): > 10
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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

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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, dimers, hydrogenated :

Assessment : 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).

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.

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

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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

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) : Volatile organic compounds (VOC) content: 63,56 %
VOC content excluding water

Water contaminating class (Germany) : WGK 1: slightly water endangering

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

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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 R-phrases referred to under sections 2 and 3

R20	Harmful by inhalation.
R65	Harmful: may cause lung damage if swallowed.

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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