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

1.1 Product identifier

Product name: OKS 424

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

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

E-mail address of person responsible for the SDS: mcm@oks-germany.com
National contact:

1.4 Emergency telephone number

Emergency telephone number: +49 8142 3051 517

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
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.

2.3 Other hazards

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.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature: Synthetic hydrocarbon oil
polyurea

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Classification</th>
<th>Concentration limits</th>
<th>Concentration (%) w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurea</td>
<td>1266545-64-5</td>
<td>01-0000017717-62-000101-0000017717-62-000001-0000017717-62-0002</td>
<td>Aquatic Chronic4; H413</td>
<td>&gt;= 2.5 - &lt; 10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

SECTION 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.

SECTION 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
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.

SECTION 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.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 - GB

OKS 424

6.3 Methods and material 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.

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

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)
Specific use(s): Consult the technical guidelines for the use of this substance/mixture.

SECTION 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
Eye protection: Tightly fitting safety goggles
Hand protection
Material: Nitrile rubber
Protective index : Class 1
Remarks : 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 material, the thickness and the type of glove and therefore has to be measured for each case.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance : paste
Colour : beige
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
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : < 0.001 hPa (20 °C)
Relative vapour density : No data available
Density : 0.85 g/cm³
(20 °C)
Bulk density : No data available
Solubility(ies)
  Water solubility : insoluble
  Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
  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
  Self-ignition : No data available

SECTION 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

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

**Product:**
Acute inhalation toxicity: Remarks: This information is not available.

**Components:**
Polyurea:
Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg
GLP: yes

Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

**Product:**
Remarks: This information is not available.

**Components:**
Polyurea:
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

**Product:**
Remarks: This information is not available.

**Components:**
Polyurea:
Species: Rabbit
Assessment: No eye irritation
Method: OECD Test Guideline 405
Result: No eye irritation
GLP: yes

Respiratory or skin sensitisation

**Product:**
Remarks: This information is not available.

**Components:**

**Polyurea:**
Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity

**Product:**
Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**Polyurea:**
Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

Carcinogenicity

**Product:**
Remarks: No data available

Reproductive toxicity

**Product:**
Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available
Repeated dose toxicity

**Product:**
Remarks: This information is not available.

Aspiration toxicity

**Product:**
This information is not available.

Further information

**Product:**
Remarks: Information given is based on data on the components and the toxicology of similar products.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**
- **Toxicity to fish**
  Remarks: No data available
- **Toxicity to daphnia and other aquatic invertebrates**
  Remarks: No data available
- **Toxicity to algae**
  Remarks: No data available
- **Toxicity to microorganisms**
  Remarks: No data available

**Components:**

**Polyurea:**
- **Toxicity to fish**
  LC50 (Danio rerio (zebra fish)): > 100 mg/l
  Exposure time: 96 h
  Test Type: static test
  Method: OECD Test Guideline 203
  GLP: yes
- **Toxicity to daphnia and other aquatic invertebrates**
  EC50 (Daphnia magna (Water flea)): > 100 mg/l
  Exposure time: 48 h
  Test Type: Immobilization
  Method: OECD Test Guideline 202
  GLP: yes
- **Toxicity to algae**
  EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
  Exposure time: 72 h
10.2 Persistence and degradability

**Product:**
- Biodegradability: Remarks: No data available
- Physico-chemical removability: Remarks: No data available

**Components:**
- Polyurea:
  - Biodegradability: Test Type: Primary biodegradation
    Inoculum: activated sludge
    Result: Not rapidly biodegradable
    Biodegradation: 10%
    Exposure time: 28 d
    Method: OECD 301 F
    GLP: yes

12.3 Bioaccumulative potential

**Product:**
- Bioaccumulation: Remarks: 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:**
- Polyurea:
  - Partition coefficient: n-octanol/water
    log Pow: > 6

12.4 Mobility in soil

**Product:**
- Mobility: Remarks: No data available
- Distribution among environmental compartments: Remarks: 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.

12.6 Other adverse effects

**Product:**

Additional ecological information : No information on ecology is available.

SECTION 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.

SECTION 14: Transport information

14.1 UN number

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

14.2 UN proper shipping name

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

14.3 Transport hazard class(es)

**ADR** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good

14.6 Special precautions for user
No special precautions required.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Remarks : Not applicable for product as supplied.

SECTION 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).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Not applicable

Not applicable
### 15.2 Chemical safety assessment
This information is not available.

### SECTION 16: Other information

#### Full text of H-statements

| H413 | May cause long lasting harmful effects to aquatic life. |

#### Full text of other abbreviations

- ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
- AICS - Australian Inventory of Chemical Substances
- ASTM - American Society for the Testing of Materials
- bw - Body weight
- CLP - Classification Labelling Packaging Regulation
- CMR - Carcinogen, Mutagen or Reproductive Toxicant
- DIN - Standard of the German Institute for Standardisation
- ECHA - European Chemicals Agency
- EC-Number - European Community number
- ECx - Concentration associated with x% response
- ELx - Loading rate associated with x% response
- EnS - Emergency Schedule
- ENCS - Existing and New Chemical Substances (Japan)
- ErCx - Concentration associated with x% growth rate response
- GHS - Globally Harmonized System
- GLP - Good Laboratory Practice
- IARC - International Agency for Research on Cancer
- IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50 - Half maximal inhibitory concentration
- ICAO - International Civil Aviation Organization
- IECSC - Inventory of Existing Chemical Substances in China
- IMDG - International Maritime Dangerous Goods
- IMO - International Maritime Organization
- ISHL - Industrial Safety and Health Law (Japan)
- ISO - International Organisation for Standardization
- KECI - Korea Existing Chemicals Inventory
- LC50 - Lethal Concentration to 50% of a test population
- LD50 - Lethal Dose to 50% of a test population
- MARPOL - International Convention for the Prevention of Pollution from Ships
- No. o.s. - Not Otherwise Specified
- NO(A)EC - No Observed (Adverse) Effect Concentration
- NO(A)EL - No Observed (Adverse) Effect Level
- NOELR - No Observable Effect Loading Rate
- NZIoC - New Zealand Inventory of Chemicals
- OECD - Organization for Economic Co-operation and Development
- OPPTS - Office of Chemical Safety and Pollution Prevention
- PBT - Persistent, Bioaccumulative and Toxic substance
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- (Q)SAR - (Quantitative) Structure Activity Relationship
- RID - Regulations concerning the International Carriage of Dangerous Goods by Road
- SADT - Self-Accelerating Decomposition Temperature
- SDS - Safety Data Sheet
- TCSI - Taiwan Chemical Substance Inventory
- TRGS - Technical Rule for Hazardous Substances
- TSCA - Toxic Substances Control Act (United States)
- UN - United Nations
- vPvB - Very Persistent and Very Bioaccumulative

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