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

### 1.1. Product identifier

Hodrupa A

UFI: T9P0-P0XG-V00G-V4EE

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

**Use of the substance/mixture**

Product for professional cleaning and maintenance

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| Company name: | Johannes Kiehl KG |
| Street: | Robert-Bosch-Str. 9 |
| Place: | D-85235 Odelzhausen |
| Telephone: | +49 8134 9305-0 Telefax: +49 8134 6466 |
| E-mail: | info@kiehl-group.com |
| Contact person: | Laboratory department |
| Internet: | www.kiehl-group.com |
| Responsible Department: | Notrufnummer für deutsch- und englischsprachige Länder: +49/89/19240<br>Vergiftungsinformationszentrale (VIZ) Österreich: +43 1 406 43 43<br>Nationale Notrufnummer für die Schweiz (Tox-Zentrum Zürich): 145<br>Numéro d'urgence France: INRS: +33 (0) 1 45 42 59 59<br>Numero d' emergenza Italia: Centro Antiveleni - 20162 Milano: 02/66101029<br>ETTSZ /Egészségügyi Toxikológiai Tájékoztató Szolgálat/, 1096 Budapest, Nagyvárad tér 2. Ügyeleti telefonszám: +36 80 201-199<br>Eesti: Häirekeskuse number: 112 / Mürgistusteabekeskuse number: 16662<br>Emergency telephone number for all other countries: +49/8134/9305-169 |

| | | | |
|---|---|---|---|
| KIEHL Austria GmbH | Perfektastr. 57; | A-1230 Wien | Tel. +43 (0) 1 / 604 99 93 |
| KIEHL FRANCE SAS | 5, rue de Londres; | F-67670 Mommenheim | Tél. +33 (0) 3.88.59.52.25 |
| KIEHL Italia s.r.l. | Via San Rocco, 101; | I-16036 Recco (GE) | Tel. +39 / 0185 730 008 |
| KIEHL Schweiz AG | St. Dionys-Str. 33; | CH-8645 Jona | Tel. +41 (0) 55 / 254 74 74 |
| KIEHL Hungary Kft. | Felsöipari körút 3/ D | HU-2142 Nagytarcsa | Tel. +36 (0) 1 / 348-08 41 |
| KIEHL Middle East LLC | A8-LIU 48/49 - KIZAD | Abu Dhabi, U.A.E. | Tel. +971 2 550 33 96 |

### 1.4. Emergency telephone number:

+49/89/19240 (germanophone and anglophone)
For Belgium: +32 70 245 245 (free, 24/7) or +32 2 264 96 30 (normal rate)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

**Regulation (EC) No 1272/2008**

**Hazard components for labelling**

Potassium Silicate / Potassium Hydroxide

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |

**Precautionary statements**

| | |
|---|---|
| P280 | Wear protective gloves/eye protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |

## 2.3. Other hazards

None known.

# SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

**Chemical characterization**

according to 648/2004/CE: nonionic surfactants <5%, anionic surfactants <5%, alkalis, water-soluble solvents, corrosion inhibitors

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 1312-76-1 | Potassium silicate | | | 1 - < 5 % |
| | 215-199-1 | | 01-2119456888-17 | |
| | Met. Corr. 1, Skin Corr. 1B; H290 H314 | | | |
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | | | 1 - < 5 % |
| | 203-961-6 | 603-096-00-8 | 01-2119475104-44 | |
| | Eye Irrit. 2; H319 | | | |
| 1310-58-3 | Potassium hydroxide | | | < 1 % |
| | 215-181-3 | 019-002-00-8 | 01-2119487136-33 | |
| | Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314 | | | |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 112-34-5 | 203-961-6 | 2-(2-Butoxyethoxy)ethanol | 1 - < 5 % |
| | dermal: LD50 = 4120 mg/kg; oral: LD50 = 5660 mg/kg | | |
| 1310-58-3 | 215-181-3 | Potassium hydroxide | < 1 % |
| | oral: LD50 = 273 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5<br>Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | |

# SECTION 4: First aid measures

## 4.1. Description of first aid measures

**General information**

Avoid contact with skin and eyes.

**After inhalation**

not hazardous by inhalation

**After contact with skin**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.
Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

This information is not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Any extinguishing means and measures are acceptable.

**5.2. Special hazards arising from the substance or mixture**

This information is not available.

**5.3. Advice for firefighters**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**General advice**

Avoid contact with skin and eyes.

**For non-emergency personnel**

Use personal protection equipment.

**For emergency responders**

Use personal protection equipment.

**6.2. Environmental precautions**

Do not flush into surface water.

**6.3. Methods and material for containment and cleaning up**

**For containment**

Stop leak if safe to do so. Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).

**For cleaning up**

Wipe up with absorbent material (e.g. cloth, fleece).
Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Never return spills in original containers for re-use.

**6.4. Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Avoid contact with skin and eyes.

**Advice on protection against fire and explosion**

Not required

**Advice on general occupational hygiene**

Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Store at room temperature in the original container. Store in a place accessible by authorized persons only.

**Hints on joint storage**

Do not store together with:
Acids
Food and feedingstuffs

**Further information on storage conditions**

Keep container tightly closed.
Never return unused material to storage receptacle.

### 7.3. Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10 | 67.5 | | TWA (8 h) | WEL |
| | | 15 | 101.2 | | STEL (15 min) | WEL |
| 1310-58-3 | Potassium hydroxide | - | 2 | | STEL (15 min) | WEL |

**Additional advice on limit values**

If applied according to regulations, this will fall below the limit. There is no risk to health.

### 8.2. Exposure controls

**Appropriate engineering controls**

Not required

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166

**Hand protection**

Suitable protective gloves recommended.
Recommendation: Nitrile gloves with a coating thickness of 0.4 mm which protect at least 8 hours (corresponds to the permeability level 6 of the European norm DIN/EN 374) and provide a resistance to swelling of < 15%.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Not required

**Environmental exposure controls**

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | liquid |
| Colour: | light brown |
| Odour: | characteristic |

| | | Test method |
|---|---|---|
| Melting point/freezing point: | <0 °C | |
| Boiling point or initial boiling point and boiling range: | >98 °C | |
| Flammability: | not applicable | |
| Lower explosion limits: | not applicable | |
| Upper explosion limits: | not applicable | |
| Flash point: | >100 °C | |
| Auto-ignition temperature: | >300 °C | |
| Decomposition temperature: | not determined | |
| pH-Value (at 20 °C): | approx. 13,0 | K-QP1012C |
| Viscosity / kinematic: | not determined | |
| Water solubility: (at 20 °C) | completely miscible | |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octanol/water: | not determined | |
| Vapour pressure: | not determined | |
| Density (at 20 °C): | 1,15 g/cm³ | K-QP1012E |
| Relative vapour density: | not determined | |
| Particle characteristics: | not applicable | |

### 9.2. Other information

**Information with regard to physical hazard classes**

Explosive properties

Not explosive

Self-ignition temperature

| | |
|---|---|
| Solid: | not applicable |
| Gas: | not applicable |

Oxidizing properties

Not relevant

**Other safety characteristics**

| | |
|---|---|
| Evaporation rate: | not determined |
| Solid content: | not determined |
| Sublimation point: | not applicable |
| Softening point: | not applicable |
| Pour point: | not applicable |
| Viscosity / dynamic: | not determined |
| Flow time: | not determined |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This information is not available.

### 10.2. Chemical stability

This information is not available.

### 10.3. Possibility of hazardous reactions

This information is not available.

### 10.4. Conditions to avoid

Do not expose to temperatures above 35 °C.

### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

**Further information**

Do not mix with other detergents or chemicals.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | Method |
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | | | | |
| | oral | LD50 5660 mg/kg | Rat | | |
| | dermal | LD50 4120 mg/kg | Rabbit | | |
| 1310-58-3 | Potassium hydroxide | | | | |
| | oral | LD50 273 mg/kg | rat | | |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

**Endocrine disrupting properties**

This information is not available.

**Further information**

Health injuries are not known or expected under normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | | | | | |
| | Acute algae toxicity | ErC50 > 100 mg/l | | Scenedesmus sp. | | |
| | Acute crustacea toxicity | EC50 > 100 mg/l | 48 h | Daphnia magna | | |

### 12.2. Persistence and degradability

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. The surfactants in the product meet all requirements of the detergents regulation 648/2004/EC.

### 12.3. Bioaccumulative potential

This information is not available.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 0,56 (25°C) |

### 12.4. Mobility in soil

This information is not available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

This information is not available.

**Further information**

Chemical Oxygen Demand (COD) 325 mg O2/g.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal recommendations**

Do not dispose of waste into sewer.

**List of Wastes Code - residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**List of Wastes Code - used product**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Clean container with water. Return cleaned containers to the company for recycling.

Offer rinsed packaging material to local recycling facilities.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID number:** | not applicable |
| **14.2. UN proper shipping name:** | not applicable |
| **14.3. Transport hazard class(es):** | not applicable |
| **14.4. Packing group:** | not applicable |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Not required

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**Other applicable information**

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 55, Entry 75

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 2

**Abbreviations and acronyms**

Met. Corr. 1: Corrosive to metals, hazard category 1
Acute Tox. 4: Acute toxicity, hazard category 4
Skin Corr. 1A: Skin corrosion, sub-category 1A
Skin Corr. 1B: Skin corrosion, sub-category 1B
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road )
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

**Classification for mixtures and used evaluation method**

| Classification | Classification procedure |
|---|---|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |

**Relevant H and EUH statements (number and full text)**

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.

| | |
|---|---|
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*