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

### 1.1. Product identifier

Dopomat Xtreme

UFI: GM00-Q0KU-2006-FUYV

### 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
Vergiftungsinformationszentrale (VIZ) Österreich: +43 1 406 43 43
Nationale Notrufnummer für die Schweiz (Tox-Zentrum Zürich): 145
Numéro d'urgence France: INRS: +33 (0) 1 45 42 59 59
Numero d' emergenza Italia: Centro Antiveleni - 20162 Milano: 02/66101029
ETTSZ /Egészségügyi Toxikológiai Tájékoztató Szolgálat/, 1096 Budapest, Nagyvárad tér 2. Ügyeleti telefonszám: +36 80 201-199
Eesti: Häirekeskuse number: 112 / Mürgistusteabekeskuse number: 16662
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 Corr. 1B; H314

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

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

**Hazard components for labelling**

Sodium Hydroxide

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face 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%, phosphonates <5%, alkalis, complexing agents

**Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 1310-73-2 | sodium hydroxide; caustic soda | | | 2 - < 5 % |
| | 215-185-5 | 011-002-00-6 | | |
| | Skin Corr. 1A; H314 | | | |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | 1 - < 5 % |
| | 205-483-3 | 603-030-00-8 | | |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H332 H312 H302 H314 H317 | | | |
| 69011-36-5 | i-C13-Fatty alcohol polyglycol ethers 5-12 EO | | | 1 - < 5 % |
| | 500-241-6 | | | |
| | Acute Tox. 4, Eye Dam. 1; H302 H318 | | | |

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 | | |
| 1310-73-2 | 215-185-5 | sodium hydroxide; caustic soda | 2 - < 5 % |
| | Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | |
| 141-43-5 | 205-483-3 | 2-aminoethanol; ethanolamine | 1 - < 5 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1025 mg/kg; oral: LD50 = 1515 mg/kg STOT SE 3; H335: >= 5 - 100 | | |
| 69011-36-5 | 500-241-6 | i-C13-Fatty alcohol polyglycol ethers 5-12 EO | 1 - < 5 % |
| | oral: ATE = 500 mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 6 - < 10 | | |

## 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. Take off all contaminated clothing immediately.

**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. Do NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label.

### 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, eyes and clothing.

**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**

No special protective measures against fire required.

**Advice on general occupational hygiene**

General industrial hygiene 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**

Keep away from food, drink and animal feedingstuffs.
Do not store near acids.

**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 |
|---|---|---|---|---|---|---|
| 141-43-5 | 2-Aminoethanol | 1 | 2.5 | | TWA (8 h) | WEL |
| | | 3 | 7.6 | | STEL (15 min) | WEL |
| 1310-73-2 | Sodium hydroxide | - | 2 | | STEL (15 min) | WEL |

### 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**

Protective gloves
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: | weakly yellow |
| 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: | not determined | |
| Decomposition temperature: | not determined | |
| pH-Value (at 20 °C): | approx. 13,5 | 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): | 1,10 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

This information is not available.

### 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 |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | | |
| | oral | LD50 1515 mg/kg | Rat | | |
| | dermal | LD50 1025 mg/kg | Rabbit | IUCLID | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 69011-36-5 | i-C13-Fatty alcohol polyglycol ethers 5-12 EO | | | | |
| | oral | ATE 500 mg/kg | | | |

**Irritation and corrosivity**

Skin corrosion/irritation / Serious eye damage/eye irritation: Causes severe skin burns and 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 |
| 1310-73-2 | sodium hydroxide; caustic soda | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 45,4 | 96 h | Onchorhynchus mykiss | | |
| 141-43-5 | 2-aminoethanol; ethanolamine | | | | | | |
| | Acute fish toxicity | LC50 | 150 mg/l | 96 h | Onchorhynchus mykiss | IUCLID | |
| | Acute algae toxicity | ErC50 | 22 mg/l | 72 h | Desmodesmus subspicatus | | |
| | Acute crustacea toxicity | EC50 | 65 mg/l | 48 h | Daphnia magna | | |

### 12.2. Persistence and degradability

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 |
|---|---|---|
| 141-43-5 | 2-aminoethanol; ethanolamine | -1,91 (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): 275mg 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:** | UN 1824 |
| **14.2. UN proper shipping name:** | SODIUM HYDROXIDE SOLUTION |
| **14.3. Transport hazard class(es):** | 8 |
| **14.4. Packing group:** | III |
| Hazard label: | 8 |




| | |
|---|---|
| Classification code: | C5 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1824 |
| **14.2. UN proper shipping name:** | SODIUM HYDROXIDE SOLUTION |
| **14.3. Transport hazard class(es):** | 8 |
| **14.4. Packing group:** | III |
| Hazard label: | 8 |




| | |
|---|---|
| Special Provisions: | 223 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-A, S-B |
| Segregation group: | alkalis |

**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

## 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 75

**National regulatory information**

Water hazard class (D): 2 - obviously 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): 3 / 6 / 7 / 8 / 12

**Abbreviations and acronyms**

Acute Tox. 4: Acute toxicity, hazard category 4
Skin Corr. 1A: Skin corrosion, sub-category 1A
Skin Corr. 1B: Skin corrosion, sub-category 1B
Eye Dam. 1: Serious eye damage, hazard category 1
Skin Sens. 1: Skin sensitisation, hazard category 1
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 Corr. 1B; H314 | Calculation method |

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

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |

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