

Safety Data Sheet

according to Regulation (EC) No 1907/2006

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 1 of 8

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

1.1. Product identifier

409 XMAX Foma

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

Use of the substance/mixture

Product for automatic vehicle washing systems

1.3. Details of the supplier of the safety data sheet

Company name: KAW KIEHL KG
 Street: Oskar-von-Miller-Str. 1
 Place: D-85235 Odelzhausen
 Telephone: +49 8134 9305-40 Telefax: +49 8134 5145
 e-mail: info@kiehl-group.com
 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: 476-64-00, 476-64-64
 Emergency telephone number for all other countries: +49/8134/9305-169

| | | | |
|--------------------------|--------------------------|---------------------|-----------------------------|
| KIEHL Austria GmbH | Perfektastr. 57 / Top 3; | A-1230 Wien | Tel. +43 (0) 1 / 604 99 93 |
| KIEHL FRANCE S.A.R.L. | 5, rue de Londres; | F-67670 Mommenheim | Tél. +33 (0) 3.88.59.52.25 |
| KIEHL Italia s.r.l. | Via Michelangelo 29; | I-16036 Avegno (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. | Ganz Ábrahám utca 4/12, | H-2142 Nagytarcsa | Tel. +36 (0) 1 / 348-08 41 |
| KIEHL Middle East L.L.C. | P.O. Box 11 40 19 | Abu Dhabi, U.A.E. | Tel. +971 2 550 33 96 |

1.4. Emergency telephone number: +49/89/19240 (germanophone and anglophone)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazard Statements:

Causes severe skin burns and eye damage.

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.

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 2 of 8

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

(according to 648/2004/CE)

3.2. Mixtures

Chemical characterization

EDTA 5-15%, anionic surfactants 5-15%, nonionic surfactants < 5%, alkalis, solubilizers, Corrosion inhibitor

Hazardous components

| CAS No | Chemical name | Quantity |
|------------|--|------------------|
| | EC No | Index No |
| | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| 64-02-8 | tetrasodium ethylene diamine tetraacetate | 5 - < 15 % |
| | 200-573-9 | 607-428-00-2 |
| | | 01-2119486762-27 |
| | Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 2; H332 H302 H318 H373 | |
| 68411-31-4 | Dodecylbenzenesulfonate-triethanolamine | 5 - < 15 % |
| | 270-116-6 | |
| | Skin Irrit. 2, Eye Dam. 1; H315 H318 | |
| 1310-73-2 | Sodium hydroxide | 1 - < 5 % |
| | 215-185-5 | 011-002-00-6 |
| | | 02-2119752469-26 |
| | Skin Corr. 1A; H314 | |
| 69011-36-5 | i-C13-Fatty alcohol polyglycol ethers 5-12 EO | 1 - < 5 % |
| | 931-138-8 | |
| | Acute Tox. 4, Eye Dam. 1; H302 H318 | |

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

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.

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 3 of 8

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

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Flush with plenty of water.

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.

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.

Advice on storage compatibility

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

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 4 of 8

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|------------------|-----|-------------------|-----------|---------------|--------|
| 1310-73-2 | Sodium hydroxide | - | - | | TWA (8 h) | WEL |
| | | - | 2 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Not required.

Protective and hygiene measures

General industrial hygiene practice.

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%.

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

pH-Value (at 20 °C):

Test method
 13,5 K-QP1012C

Changes in the physical state

Melting point: <-8 °C
 Initial boiling point and boiling range: >98 °C
 Sublimation point: not applicable
 Softening point: not applicable
 Pour point: not applicable
 Flash point: >100 °C

Flammability

Solid: not applicable
 Gas: not applicable

Explosive properties

Not explosive

Lower explosion limits: not applicable
 Upper explosion limits: not applicable
 Ignition temperature: not applicable

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Safety Data Sheet

according to Regulation (EC) No 1907/2006

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 5 of 8

Oxidizing properties

Not relevant

Vapour pressure: not determined

Density (at 20 °C): 1,18 g/cm³ K-QP1012EWater solubility:
(at 20 °C) completely miscible**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: 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 toxicological effects****Acute toxicity**

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 6 of 8

| CAS No | Chemical name | | | | |
|------------|---|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 64-02-8 | tetrasodium ethylene diamine tetraacetate | | | | |
| | oral | ATE 500 mg/kg | | | |
| | inhalative vapour | ATE 11 mg/l | | | |
| | inhalative aerosol | 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

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

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.

Further information

Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

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.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

This information is not available.

12.6. Other adverse effects

This information is not available.

Further information

Chemical Oxygen Demand (COD): 436 mg O₂/g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose of waste into sewer.

Waste disposal number of waste from residues/unused products

Safety Data Sheet

according to Regulation (EC) No 1907/2006

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 7 of 8

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

Waste disposal number of 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. Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN 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

Inland waterways transport (ADN)

14.1. UN 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

Marine transport (IMDG)

14.1. UN 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

409 XMAX Foma

Revision date: 05.05.2017

Product code: k4090_sd

Page 8 of 8

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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

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 / 3 / 16

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H373 | May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled. |

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