

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.03.2019

Version number 11

Revision: 26.03.2019

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

1.1 Product identifier

Trade name: **Impregnation Remover**

Article number: 12003, 12004

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

No further relevant information available.

Application of the substance / the mixture

Cleaning agent/ Cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05

Signal word

Danger

Hazard-determining components of labelling:

sodium hydroxide
tetradecyldimethylamine oxide
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides
H314 Causes severe skin burns and eye damage.

Hazard statements

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

Description: Mixture: consisting of the following components.

Dangerous components:

	non-ionic surfactants Eye Dam. 1, H318 Skin Irrit. 2, H315	1-5%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	sodium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	<10%
CAS: 3332-27-2 EINECS: 222-059-3	tetradecyldimethylamine oxide Eye Dam. 1, H318 Aquatic Acute 1, H400 Skin Irrit. 2, H315	1-5%

Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants	<5%
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Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- Protective equipment: Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Provide acid-resistant floor.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Protect from frost.
Keep container tightly sealed.
- Storage class: 8 A
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

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8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxideWEL Short-term value: 2 mg/m³**DNELs****1310-73-2 sodium hydroxide**

Oral	DNEL (Langzeit-wiederholt)	2.3 mg/kg bw/day (ARB)
Dermal	DNEL (Langzeit-wiederholt)	11,718 mg/kg bw/day (ARB) 11,718 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1 mg/m ³ Air (ARB) 1 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	1-2.1 mg/m ³ Air (ARB) 5.7 mg/m ³ Air (BEV)

- Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Not necessary if room is well-ventilated.

- Respiratory protection:

- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- For the permanent contact gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR
Neoprene gloves
- As protection from splashes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR
- Not suitable are gloves made of the following materials:
Leather gloves
Strong material gloves
- Eye protection:
 Tightly sealed goggles
- Body protection:
Impervious protective clothing

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**General InformationAppearance:

- Form: Fluid
- Colour: Cloudy
- Odour: Mild
- Odour threshold: Not determined.

pH-value at 20 °C: 14

Change in condition

- Melting point/freezing point: Undetermined.
- Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

Vapour pressure at 20 °C: 23 hPa

- Density at 20 °C: 1.12 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

- Dynamic: Not determined.
- Kinematic: Not determined.

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- Solvent content:
 - Organic solvents: 0.0 %
 - Water: 86.4 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	20,800 mg/kg (rat)
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1310-73-2 sodium hydroxide

Oral	LD50	2,000 mg/kg (rat)
	LC50/48h	145 mg/l (poecilia reticulata)

110615-47-9 D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
		>2,000 mg/kg (rbt)
Inhalative	LC50	>10 mg/l (rat)
	NOAEC	>1 mg/l (Brachydanio rerio) (OECD 204)

- Primary irritant effect:
- Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity 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.

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SECTION 12: Ecological information**• 12.1 Toxicity****• Aquatic toxicity:****1310-73-2 sodium hydroxide**

EC50/24h	76 mg/l (daphnia magna)
LC50/24h	145 mg/l (poecilia reticulata)
EC50/15min	22 mg/l (Photobac. phosphoreum)
EC50/48h	40.4 mg/l (daphnia magna)
LC50/96h	196 mg/l (piscis)
	125 mg/l (Gambusia affinis)

3332-27-2 tetradecyldimethylamine oxide

EC50/48h	11.1 mg/l (daphnia magna) (OECD 202)
ErC50/72h	0.19 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	10.3 mg/l (Brachydanio rerio) (OECD 203)

110615-47-9 D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

EC50	>10-<100 mg/l (daphnia magna) (RL 92/69/EWG)
	>10-<100 mg/l (Desmodium subspicatus) (OECD 201)
LC50	>1-<10 mg/l (Brachydanio rerio) (OECD 203; ISO 7346)
EC0	>5,000 mg/l (pseudomonas putida) (Din 38412 Teil 8)
EC10	>1 mg/l (daphnia magna) (OECD 202 Teil 2)
LC50/96h	>1-<10 mg/l (Brachydanio rerio)

• 12.2 Persistence and degradability

biodegradable

• 12.3 Bioaccumulative potential

No further relevant information available.

• 12.4 Mobility in soil

No further relevant information available.

• Additional ecological information:**• General notes:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

• 12.5 Results of PBT and vPvB assessment**• PBT:**

Not applicable.

• vPvB:

Not applicable.

• 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations**• 13.1 Waste treatment methods****• Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packaging:**• Recommendation:**

Disposal must be made according to official regulations.

• Recommended cleansing agents:

Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

<ul style="list-style-type: none"> • 14.1 UN-Number • ADR, IMDG, IATA 	UN1719
<ul style="list-style-type: none"> • 14.2 UN proper shipping name • ADR • IMDG, IATA 	1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE), ENVIRONMENTALLY HAZARDOUS CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE)
<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) • ADR  <ul style="list-style-type: none"> • Class • Label 	8 (C5) Corrosive substances. 8
<ul style="list-style-type: none"> • IMDG, IATA  <ul style="list-style-type: none"> • Class • Label 	8 Corrosive substances. 8
<ul style="list-style-type: none"> • 14.4 Packing group • ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> • 14.5 Environmental hazards: • Marine pollutant: 	No
<ul style="list-style-type: none"> • 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Segregation groups • Stowage Category • Segregation Code 	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG22 Stow "away from" ammonium salts SG35 Stow "separated from" acids.
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> • Transport/Additional information: 	
<ul style="list-style-type: none"> • ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 E
<ul style="list-style-type: none"> • IMDG • Limited quantities (LQ) • Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

A Chemical Safety Assessment has not been carried out.

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 Harmonised 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 (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1