Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.03.2020 Version number 6 Revision: 26.03.2020

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

· **1.1 Product identifier**
· Trade name: **Traffic Film Remover**

· Article number: 87849, 87852
· **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 material/ Detergent

· **1.3 Details of the supplier of the safety data sheet**
· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960
Lechstrasse 28 Fax. +49(0)911-644456
D 90451 Nürnberg 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

Met. Corr.1 H290 May be corrosive to metals.
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 The product is classified and labelled according to the CLP regulation.
· Hazard pictograms


GHS05

· Signal word Danger

· Hazard-determining components of labelling: tetrasodium ethylenediaminetetraacetate
sodium hydroxide
alcohols, C6-12, ethoxylated
· Hazard statements H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
· 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.

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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.
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:

	cationic surfactants Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 64-02-8 EINECS: 200-573-9 Index number: 607-428-00-2 Reg.nr.: 01-2119486762-27-xxxx	tetrasodium ethylenediaminetetraacetate STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332	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	1-5%
CAS: 68439-45-2	alcohols, C6-12, ethoxylated Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312	1-5%

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

EDTA and salts thereof, cationic surfactants, non-ionic surfactants, phosphonates	<5%

· 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: Take affected persons into fresh air and keep quiet.
In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment in case of complaints.
· After skin contact: Seek immediate medical advice.
Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: Rinse out mouth and then drink plenty of water.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Do not induce vomiting; call for medical help immediately.

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· **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.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· Suitable extinguishing agents: CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
· **5.3 Advice for firefighters**
· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Product forms slippery surface when combined with water.
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.
· 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.
Store in a cool location.
Provide acid-resistant floor.
· Information about storage in one common storage facility: Not required.
· Further information about storage conditions: Protect from frost.
Keep container tightly sealed.
· Storage class: 8 A

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· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

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

1310-73-2 sodium hydroxide

WEL	Short-term value: 2 mg/m³

· DNELs

64-02-8 tetrasodium ethylenediaminetetraacetate		
Oral	DNEL (Langzeit-wiederholt)	25 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	3 mg/m³ Air (ARB)
		1.2 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	1.5 mg/m³ Air (ARB)
		0.6 mg/m³ Air (BEV)
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/m³ Air (ARB)
		1 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	1-2.1 mg/m³ Air (ARB)
		1 mg/m³ Air (BEV)
51981-21-6 N,N-bis(carboxylatomethyl)-L-glutamat Tetranatriumsalz		
Oral	DNEL (Langzeit-wiederholt)	1.5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	15,000 mg/kg bw/day (ARB)
		7,500 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	7.3 mg/m³ Air (ARB)
		1.8 mg/m³ Air (BEV)

· PNECs

64-02-8 tetrasodium ethylenediaminetetraacetate	
PNEC (wässrig)	43 mg/l (KA)
	0.22 mg/l (MW)
	2.2 mg/l (SW)
	1.2 mg/l (WAS)
PNEC (fest)	0.72 mg/kg Trockengew (BO)

· 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.
Avoid contact with the eyes and skin.

· Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands: 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.

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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 anylyses 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).

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves: Rubber gloves
Neoprene gloves
PVC 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR

· As protection from splashes gloves made of the following materials are suitable: Butoject (KCL, Art_No. 897, 898)
Butyl rubber, BR

· Not suitable are gloves made of the following materials: Nitrile rubber, NBR

· Eye protection:

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	Colourless
· Odour:	Mild
· Odour threshold:	Not determined.
· pH-value at 20 °C:	>13
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

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· 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:	Not determined.
· Density at 20 °C:	1.06 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.
· Solvent content:	
Organic solvents:	0.0 %
· **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:** Carbon monoxide

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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	14,286 mg/kg (rat)
Dermal	LD50	33,333 mg/kg
Inhalative	LC50/4 h	50 mg/l

64-02-8 tetrasodium ethylenediaminetetraacetate		
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

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Inhalative	LC50	1,000 mg/l (rat)
	LC50/4 h	1.5 mg/l (ATE)
1310-73-2 sodium hydroxide		
Oral	LD50	2,000 mg/kg (rat)
	LC50/48h	145 mg/l (poecilia reticulata)
51981-21-6 N,N-bis(carboxylatomethyl)-L-glutamat Tetranatriumsalz		
Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)
68439-45-2 alcohols, C6-12, ethoxylated		
Oral	LD50	1,200 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rat)

· 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 (carcinogenity, 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.

*
SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:	
64-02-8 tetrasodium ethylenediaminetetraacetate	
EC50/48h	>100 mg/l (daphnia magna)
LC50/96h	>100 mg/l (piscis)
	>100 mg/l (lepomis macrochirus)
	>500 mg/l (Leuciscus idus)
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	76 mg/l (daphnia magna)
LC50/96h	196 mg/l (piscis)
	125 mg/l (Gambusia affinis)
51981-21-6 N,N-bis(carboxylatomethyl)-L-glutamat Tetranatriumsalz	
EC50/48h	>100 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Oncorhynchus mykiss)
68439-45-2 alcohols, C6-12, ethoxylated	
EC50/48h	1-10 mg/l (daphnia magna)
LC50/96h	1-10 mg/l (piscis)

· **12.2 Persistence and degradability** — No further relevant information available.
· **12.3 Bioaccumulative potential** — No further relevant information available.
· **12.4 Mobility in soil** — No further relevant information available.

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· Additional ecological information:
· General notes: 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

· **14.1 UN-Number**
· ADR, IMDG, IATA UN1760

· **14.2 UN proper shipping name**
· ADR 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)
· IMDG, IATA CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)

· **14.3 Transport hazard class(es)**

· ADR

· Class 8 (C9) Corrosive substances.
· Label 8

· IMDG, IATA

· Class 8 Corrosive substances.
· Label 8

· **14.4 Packing group**
· ADR, IMDG, IATA III

· **14.5 Environmental hazards:**
· Marine pollutant: No

· **14.6 Special precautions for user** Warning: Corrosive substances.
· Hazard identification number (Kemler code): 80
· EMS Number: F-A,S-B
· Stowage Category A
· Stowage Code SW2 Clear of living quarters.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

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· Transport/Additional information:

· ADR
· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
· Transport category 3
· Tunnel restriction code E

· IMDG
· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE), 8, III

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SECTION 15: Regulatory information

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

· Directive 2012/18/EU
· Named dangerous substances - ANNEX I: None of the ingredients is listed.
· REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
· VOC EU 0.0 g/l
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Laboratory
· Contact: Dieter Zimmermann
Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de

· Abbreviations and acronyms:
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

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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)
PNEC: Predicted No-Effect Concentration (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 - oral – 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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2