MEMI®

according to 1907/2006/EC, Article 31

Printing date 26.08.2019 Version number 7 Revision: 26.08.2019

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

· 1.1 Product identifier

· Trade name: **Rust Remover Marble** 

10899, 10796/10797, 11048, 11049 Article number:

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

No further relevant information available.

Application of the substance / the

Cleaning agent/ Cleaner mixture

· 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:

· 1.4 Emergency telephone

number:

Laboratory

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



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 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.



 Signal word Warning

· Hazard-determining components

of labelling:

· Hazard statements

sodium mercaptoacetate H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

If medical advice is needed, have product container or label at Precautionary statements P101

P102 Keep out of reach of children. P103 Read label before use.

P261 Avoid breathing mist/vapours/spray.

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

protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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 of substances listed below with nonhazardous additions.

<u>=</u>			
· Dangerous components:			
CAS: 367-51-1	sodium mercaptoacetate	12.5-25%	
EINECS: 206-696-4	Acute Tox. 3, H301; Acute Tox. 3, H311		
Reg.nr.: 01-2119968564-24	Met. Corr.1, H290		
	♦ Skin Sens. 1, H317		
CAS: 1336-21-6	ammonia	<1%	
EINECS: 215-647-6	Skin Corr. 1B, H314		
Index number: 007-001-01-2	V '		
Reg.nr.: 01-2119488876-14	♦ STOT SE 3, H335		
· Regulation (EC) No 648/2004 on detergents / Labelling for contents			
BENZISOTHIAZOLINONE, N	METHYLISOTHIAZOLINONE	<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.

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

• After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for

transportation.

· 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: Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and

**delayed** Gastric or intestinal disorders

Acidosis

· <u>Information for doctor:</u> Symptoms in intoxication with acids:

In case of oral intake symptoms depend on concentration and acidity of incorporated acid, and are corrosive eschar in mouth and throat, vomitting, severe dysphagia, shock and coma. Therapy measures: drink plenty of water. Administer 20 g Magnesia usta in milk oral; no hydrogen carbonate oral; pain relief measures; in indication of acidosis infusion of sodium hydrogencarbonate

solution(5%).

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· 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: 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 · 5.3 Advice for firefighters Formation of toxic gases is possible during heating or in case of fire.

· Protective equipment: Do not inhale explosion gases or combustion gases. Mount respiratory protective device.

**SECTION 6: Accidental release measures** 

· 6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

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

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for

Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up:

binders, sawdust).

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 Keep receptacles tightly sealed.

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.

· Information about storage in one

common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and

alkalis.

· Further information about storage

conditions:

Protect from frost.

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

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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:

The product does not contain any relevant quantities of materials with critical

values that have to be monitored at the workplace. The lists valid during the making were used as basis.

· Additional information:

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

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.

Respiratory protection:

· Protection of hands:

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. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves:

STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

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 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

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Material of gloves Butyl rubber, BR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton) Chloroprene rubber, CR

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 Value for the permeation: Level ≤ 6; 480 min

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

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art\_No. 730, 731, 732, 733)

Fluorocarbon rubber (Viton) Vitoject (KCL, Art\_No. 890) Chloroprene rubber, CR

Camapren (KCL, Art\_No. 720, 722, 726)

 As protection from splashes gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art\_No. 720, 722, 726)

· Not suitable are gloves made of

the following materials:

Leather gloves

Strong material gloves

Eye protection: Goggles recommended during refilling

- <u>Body protection:</u> Protective work clothing

### **SECTION 9: Physical and chemical properties**

<ul> <li>9.1 Information on basic  </li> </ul>	<u>ph</u>	ysica	and	chem	ical	pro	perties
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General Information

· Appearance:

suitable:

Form:
Colour:
Yellow-brown
Odour:
Sulfurous
Odour threshold:
Not determined.

· pH-value at 20 °C:

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

· Flash point: 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.

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Upper: Not determined. (Contd. of page 5)

· Vapour pressure at 20 °C:	23 hPa
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.1 g/cm³ Not determined. Not determined. 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 % Water: 81.3 %

• 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

<u>reactions</u> Reacts with alkali and metals.

Reacts with strong oxidising agents. Reacts with metals forming hydrogen. No further relevant information available.

10.4 Conditions to avoid
 10.5 Incompatible materials:
 10.6 Hazardous decomposition

No further relevant information available.

**products:** Phosphorus oxides (e.g. P2O5)

Irritant gases/vapours

### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

· Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

 Oral
 LD50
 272-1,088 mg/kg (rat)

 Dermal
 LD50
 5,440-10,880 mg/kg (rat)

367-51-1 sodium mercaptoacetate

	367-51-1 sodium mercaptoacetate		
ľ	Oral	LD50	50-200 mg/kg (rat) (OECD 423)
		NOEL	75 mg/kg (rat) (OECD 414)
		NOAEL-Werte	20 mg/kg (rat) (OECD 421)
	Dermal	LD50	1,000-2,000 mg/kg (rat)
		NOEL	≥65 mg/kg (rabbit)
			100 mg/kg (rat)
l		LC50/48h	880 mg/l (Leuciscus idus) (Dln 38412/15)

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met. Serious eye damage/irritation

May cause an allergic skin reaction. Respiratory or skin sensitisation · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

### **SECTION 12: Ecological information**

### · 12.1 Toxicity

Aquatic toxicity:

## 367-51-1 sodium mercaptoacetate

EC50/48h 38 mg/l (daphnia magna) (Methode: 84/449/EWG) EC50/72h 13 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

LC50/96h >100 mg/l (Oncorhynchus mykiss) (OECD 203)

#### 1336-21-6 ammonia

EC50 2 mg/l (Photobac. phosphoreum) EC50/48h 25.4 mg/l (daphnia magna)

LC50/96h 0.26-4.6 mg/l (lepomis macrochirus)

0.16-1.1 mg/l (Oncorhynchus mykiss) 0.75-3.4 mg/l (pimephales promelas)

### · 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative potential · 12.4 Mobility in soil

No further relevant information available. No further relevant information available.

Additional ecological information:

 General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised. 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:

Empty contaminated packagings thoroughly. They may be recycled after · Recommendation:

thorough and proper cleaning.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

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### **SECTION 14: Transport information**

· ADR, IMDG, IATA	UN1760
· 14.2 UN proper shipping name	
ADR	1760 CORROSIVE LIQUID, N.O.S. (sodium mercaptoacetate)

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA

· 14.1 UN-Number



· IMDG, IATA

· Class 8 Corrosive substances. · Label

· 14.4 Packing group

· ADR, IMDG, IATA Ш

· 14.5 Environmental hazards:

· Marine pollutant:

· 14.6 Special precautions for user Warning: Corrosive substances.

· Danger code (Kemler): 80

· EMS Number: F-A,S-A

· Segregation groups Ammonium compounds

Stowage Category

· Stowage Code SW2 Clear of living quarters.

· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L Code: E1

· Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

CORROSIVE LIQUID, N.O.S. (sodium mercaptoacetate)

· Transport category

· Tunnel restriction code Ε

· 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

MERCAPTOACETATE), 8, III

### **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.

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- REGULATION (EC) No 1907/2006

Conditions of restriction: 3

· National regulations:

**ANNEX XVII** 

· 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.

H301 Toxic if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

Recommended restriction of use refer to Technical Data Sheet (TDS)

Department issuing SDS: Laboratory

· Contact: Dieter Zimmermann

· 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 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)

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. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· \* Data compared to the previous

version altered. Adaptation in accordance with REACH directive 1907/2006/EC

GB