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

MENT®

Printing date 29.10.2020 Version number 9 Revision: 29.10.2020

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

· 1.1 Product identifier

· Trade name: **Rust Remover Marble**

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

· UFI: 7VRP-4DEM-S01G-4R9G

· 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

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

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH number:

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



GHS07

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

· Hazard statements

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



GHS07

· Signal word Warning

· Hazard-determining components of

labelling: sodium mercaptoacetate

2-methyl-2H-isothiazol-3-one H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions. Avoid breathing mist/vapours/spray. P261

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

protection/hearing protection.

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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

Mixture of substances listed below with nonhazardous additions. · Description:

· Dangerous components:		
CAS: 367-51-1 EINECS: 206-696-4 Reg.nr.: 01-2119968564-24	sodium mercaptoacetate Acute Tox. 3, H301; Acute Tox. 3, H311 Met. Corr.1, H290 Skin Sens. 1, H317	12.5-25%
CAS: 1336-21-6 EINECS: 215-647-6 Index number: 007-001-01-2 Reg.nr.: 01-2119488876-14	ammonia Skin Corr. 1B, H314 Aquatic Acute 1, H400 STOT SE 3, H335	<1%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317; STOT SE 3, H335	<1%
Regulation (EC) No 648/2004 on detergents / Labelling for contents		
BENZISOTHIAZOLINONE, 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

· After swallowing: Call for a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and

Gastric or intestinal disorders delayed

Acidosis

· Information for doctor: 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 neededNo 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

<u>emergency procedures</u> 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

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).

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

<u>explosion protection:</u> No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

<u>storerooms and receptacles:</u> 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.

· Storage class: 8 B

• **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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

367-51-1 sodium mercaptoacetate

DNEL (Langzeit-wiederholt) 2.06 mg/kg bw/day (ARB) Inhalative DNEL (Langzeit-wiederholt) 1.41 mg/m³ Air (ARB)

· PNECs

367-51-1 sodium mercaptoacetate

PNEC (wässrig) 0.0038 mg/l (MW) 0.0038 mg/l (SW)

· Additional information:

The lists valid during the making were used as basis.

· 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:

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.

Protection of hands:

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).

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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

Butvl 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.

 \cdot Penetration time of glove material Value for the permeation: Level \leq 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

suitable:

Material of gloves

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

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

General Information

· Appearance:

Form: Liquid
Colour: Yellow-brown
Odour: sulfidic
Odour threshold: Not determined.

· pH-value at 20 °C: 9

· Change in condition

Melting point/freezing point: Undetermined.

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Initial boiling point and boiling range	<u>:</u> 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.
· <u>Explosion limits:</u> <u>Lower:</u> <u>Upper:</u>	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.1 g/cm ³ Not determined. Not determined. Not determined. Not determined.
· <u>Solubility in / Miscibility with</u> <u>water:</u>	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· <u>Viscosity:</u> Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content·	

Solvent content:

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

reactions

Reacts with alkali and metals. Reacts with strong oxidising agents.

Reacts with metals forming hydrogen.

· 10.4 Conditions to avoid 10.5 Incompatible materials: No further relevant information available. No further relevant information available.

10.6 Hazardous decomposition

products: Phosphorus oxides (e.g. P2O5)

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Harmful if swallowed. · Acute toxicity

· LD/LC5	0 values	relevan	t for c	lassitic	ation:

AIE (A	cute Toxici	ty ⊑Stimates)
Oral	LDEO	272.4.0

272-1,090 mg/kg (rat) Oral LD50 LD50 5,449-10,897 mg/kg (rat) Dermal

367-51-1	sodium	merca	ptoacetate
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Oral	LD50	50-200 mg/kg (rat) (OECD 423)

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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)

LC50/48h 880 mg/l (Leuciscus idus) (Dln 38412/15)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral LD50 100 mg/kg (ATE) Dermal LD50 300 mg/kg (ATE) Inhalative LC50/4 h 0.5 mg/l (ATE)

Primary irritant effect:

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

· Respiratory or skin sensitisation May cause an allergic skin reaction. · 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 · Reproductive toxicity Based on available data, the classification criteria are not met. 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)

2682-20-4 2-methyl-2H-isothiazol-3-one

EC50 34.6 mg/l (BES) (DIN 38412-3) EC50/48h 1.6 mg/l (daphnia magna) EC50/16h 2.3 mg/l (pseudomonas putida) EC20/3h | 2.8 mg/l (BES) (DIN 38412-3)

EC50/72h | 0.157 mg/l (Pseudokirchneriella subcapitata)

LC50/96h 6 mg/l (rainbow trout)

· 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.

· Additional ecological information:

Do not allow undiluted product or large quantities of it to reach ground water, · General notes: water course or sewage system.

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

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

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:

444115151

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

thorough and proper cleaning.

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

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN17

14.2 UN proper shipping name

1760 CORROSIVE LIQUID, N.O.S. (sodium · ADR

mercaptoacetate)

· IMDG, IATA CORROSIVE LIQUID, N.O.S. (sodium mercaptoacetate)

· 14.3 Transport hazard class(es)

· ADR



· Class 8 (C9) Corrosive substances.

· Label

· IMDG, IATA



8 Corrosive substances. · Class

· Label

· 14.4 Packing group

· ADR, IMDG, IATA Ш

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): · EMS Number:

F-A,S-B

· Stowage Category

· Stowage Code

SW2 Clear of living quarters.

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UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM

MERCAPTOACETATE), 8, III

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· 14.7 Transport in bulk according to Annex II of Marpol			
and the IBC Code	Not applicable.		
· Transport/Additional information:			
· ADR			
· Limit ed 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		

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· UN "Model Regulation":

· Named dangerous substances -

None of the ingredients is listed. ANNEX I

· REGULATION (EC) No 1907/2006

Conditions of restriction: 3 ANNEX XVII

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU $0.0 \, g/I$

· 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.

H290 May be corrosive to metals. · Relevant phrases

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. H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

· Department issuing SDS: Laboratory

· Contact: Dieter Zimmermann

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ADR: Accord européen sur le transport des marchandises dangereuses par Route (European · Abbreviations and acronyms:

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)
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. 3: Acute toxicity - oral - Category 3 Acute Tox. 4: Acute toxicity - oral - Category 4 Acute Tox. 2: Acute toxicity - inhalation - Category 2 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC