

Date: 29/11/2021

Calcium, Lime & Rust Stain Remover - Safety Data Sheet

according to 1907/2006/EC, Article 31

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

- · 1.1 Product identifier
- · Trade name: Calcium, Lime & Rust Stain Remover
- Product Code: 257108
- · UFI: 2V1Y-1Q2F-K00F-0PY6
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages

C Consumer use

PW Widespread use by professional workers

· Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households / general public / consumers

- Product category PC35 Washing and cleaning products (including solvent based products)
- · Technical function Cleaning agent
- · Application of the substance / the mixture Cleaning agent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Supplier:

T.I Midwood & Co. Ltd T.I Midwood & Co. Ltd TIMCO House Aviemore House Hill Street Green Lane Wardle Monahan Nantwich Ireland

CW5 6BJ

Emergency Help Line: 01865 407333 (24 hour service)

according to 1907/2006/EC, Article 31

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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 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



- · Signal word Warning
- · Hazard-determining components of labelling:

phosphoric acid

Alcohols, C9-11, ethoxylated

· Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children. P264 Wash thoroughly after handling.

P280 Wear protective gloves / 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations. P501 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

according to 1907/2006/EC, Article 31

CAS: 7664-38-2	phosphoric acid	≥10-<25%
EINECS: 231-633-2	♦ Met. Corr.1, H290; Skin Corr. 1B, H314	
Index number: 015-011-00-6	1 Acute Tox. 4, H302	
Reg.nr.: 01-2119485924-24-xxxx	Specific concentration limits: Skin Corr. 1B; H314: $C \ge 25 \%$	
_	Skin Irrit. 2; H315: 10 % ≤ C < 25 %	
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
CAS: 68439-46-3	Alcohols, C9-11, ethoxylated	1-2.5%
EC number: 931-514-1	♦ Eye Dam. 1, H318	
Reg.nr.: Polymer	Åcute Tox. 4, H302	
Additional information:		
Nonionic surfactants		<5%
Perfumes (LIMONENE, LINALOG	OL)	

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: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- · After swallowing: 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents:

Alcohol resistant foam

Carbon dioxide

Dry sand

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose contaminated material as waste according to item 13.

· 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 Store in cool, dry place in tightly closed receptacles.
- · Information about fire and explosion protection: No special measures required.

according to 1907/2006/EC, Article 31

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· Ingredients with limit valu	ues that require monitoring at the workplace:		
CAS: 7664-38-2 phosphoric acid			
WEL (Great Britain)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³		
IOELV (European Union)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³		

· DNELs

CAS: 7664-38-2 phosphoric acid Inhalative DNEL Long term local mg/m3 | 0.73 mg/m3 (consumer) 2.92 mg/m3 (worker) DNEL Acute-local mg/m3 2 mg/m3 (worker)

- · 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 eat, drink, smoke or sniff while working.

Protection of hands:



Protective gloves

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

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. The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

according to 1907/2006/EC, Article 31

SECTION 9: Physical and chem	ical properties
· 9.1 Information on basic physical and c · General Information · Appearance:	hemical properties
Form:	Liquid
Colour:	Green
· Odour:	Pleasant
· Odour threshold:	Not determined.
· pH-value at 20 °C:	2.5
· Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. 2: 130 °C
· 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. Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.14 g/cm^3
· 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 %
Swiss VOC:	0.01 %
Solids content:	0.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- $\cdot \textit{10.1 Reactivity} \ \textit{No further relevant information available}.$
- · 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: Do not store together with alkalis (caustic solutions).
- · 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Organic phosphorus compounds

according to 1907/2006/EC, Article 31

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 1,208 mg/kg

CAS: 7664-38-2 phosphoric acid

 Oral
 LD50
 300 mg/kg (Rat)

 Dermal
 LD50
 2,740 mg/kg (Rabbit)

 Inhalative
 LC50/8 h
 >214 mg/m3 (Rat)

LC50/24 h 245 mg/ltr (Brachydanio rerio)

- Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eve irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · 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:

CAS: 7664-38-2 phosphoric acid

LC50 / 96 h 138 mg/ltr (blu)

98-106 mg/ltr (fish)

- 12.2 Persistence and degradability No further relevant information available.
- Other information: The product is 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:

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

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

- · 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 Disposal must be made according to official regulations
- · European waste catalogue

HP6 Acute Toxicity

HP8 Corrosive

according to 1907/2006/EC, Article 31

- · Uncleaned packaging:
- · Recommendation: Disposal in accordance with administrative provisions

14.1 UN-Number		
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Annex II o	of Marpol and	
the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

Reg (EC) n. 648/2004 - Detergents Reg . (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 2015/830 annex II of REACH;

Dir. 06/08 ADR – RID - IMDG - IATA;

Dir. 12/18 (Seveso III);

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

- · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

phosphoric acid

Alcohols, C9-11, ethoxylated

· Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P102 Keep out of reach of children. P264 Wash thoroughly after handling.

P280 Wear protective gloves / 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

according to 1907/2006/EC, Article 31

- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

· Classification according to Regulation (EC) No 1272/2008 Calculation method

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

WELL: The highest acceptable concentration IOELV: Indicative occupational exposure limit values

Met. Corr.1: Corrosive to metals – Category I

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

according to 1907/2006/EC, Article 31

Annex: Exposure scenario

- · Short title of the exposure scenario For the finished product.
- · Sector of Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households / general public / consumers

- Product category PC35 Washing and cleaning products (including solvent based products)
- · Technical function Cleaning agent
- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Used amount per time or activity

According to directions for use.

Smaller than 10 g per application.

- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

· Other operational conditions affecting consumer exposure

No special measures required.

Keep out of the reach of children.

- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures Ensure that suitable extractors are available on processing machines
- · Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Protective gloves

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

- · Measures for consumer protection Ensure adequate labelling.
- · Environmental protection measures
- · Water

No special measures required.

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

- · Disposal measures Ensure that waste is collected and contained.
- Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer

Not relevant for this Exposure Scenario.

The highest inhalative exposure to be expected for consumers is ppm.

The highest dermal exposure to be expected for consumers is mg/kg/day.

The highest oral exposure to be expected for consumers is mg/kg/day.

Guidance for downstream users No further relevant information available.