

SAFETY DATA SHEET

Power Stain Remover

UNICARE (CHEMICALS) LTD

1 Identification

Product Identifier:

Power Stain Remover

Other means of identification:

Not applicable.

Recommended use of the chemical and restriction on use:

For the removal of organic dirt from utensils

Supplier's details:

Unicare (Chemicals) Ltd Aradhippou, Industrial Area,

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Emergency phone number

1401

2 Hazard(s) identification

Classification of the substance or mixture

According to regulation (EC) No 1272/2008 [CLP]

Corrosive / irritant to skin: Hazard Category 1

Serious eye damage / eye irritation: Hazard Category 1

May be corrosive to metals

GHS Label Element



Signal Word:

Danger

Hazard Statements:

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Precautionary Statement

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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

P304+P330: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P308+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: Dispose of contents/container to appropriate waste according to national / local regulations.

Other hazards which do not result in classification

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

Mixture

Description	- CAS Number - EINECS Number - Reach registration number	Concentration (% w/w)	Note / Classification
Sodium carbonate	- 497-19-8, 6132-02-1, 7440-23-5 - 207-838-8 - N/A	13 – 15	Eye Irrit. 2: H319
Trisodium phosphate	- 68439-54-3 - 931-985-3 - N/A	55 – 60	Skin Corr. 2, H315; Eye Dam. 2, H319
Sodium Metasilicate Pentahydrate	- 10213-79-3 - 600-279-4 - N/A	13 - 15	Skin Corr. 1, H314; Acute Tox. 4 (oral), H302; Resp. Irrit.: H335; Corr. Met.: H290

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

4 First-aid measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Take off contaminated clothes and shoes immediately.

Wash off with soap and plenty of water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 Fire-fighting measures

Extinguishing media

Flash Point & Method

None

Suitable Extinguishing Media

Pulverized water, foam, dry chemical & carbon dioxide

Specific hazards arising from the chemical

Carbon monoxide, carbon dioxide, phosphorus oxides, hydrogen fluoride, formaldehyde, as well as other toxic vapours and gases which are common to thermal degradation (in case of fire) of organic compounds.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and full protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, Section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not add water to spilled material. Do not use floor sweeping compounds to clean up spills. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. Keep it in closed containers for disposal.

7 Handling and storage

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.

Storage stability:

Storage temperature: 10 - 40 °C

The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.

Protect from temperatures above: 70 °C

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace: trisodium phosphate

Trisodium phosphate (CAS: 68439-54-3)	
ACGIH TLV	Respirable: 3 mg/m ³ (TWA) Inhalable: 10 mg/m ³ (TWA)
OSHA PEL	Respirable: 5 mg/m ³ (TWA) Inhalable: 15 mg/m ³ (TWA)

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TWA: Time-Weighted Average concentration

STEL: Short Term Exposure Limit

PEL: Permissible Exposure Limit

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. (Particle filter EN 143 P2 or FFP2)

Hand protection:

Chemical resistant protective gloves. (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work.

Handle in accordance with good industrial hygiene and safety practice.

9 Physical and chemical properties

Physical and chemical properties

General Information

- **Appearance:**

Form: Solid (granular powder)

Colour: Pink

- **Odour:** Light chlorine
- **Odour threshold:** Not determined
- **pH-value:** 12.2 – 12.6 (for 1% w/w solution in water)
- **Specific gravity:** 0.80 – 0.90
- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** Not determined
- **Flash point:** Not determined
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure at 20 °C:** Not determined
- **Density at 20 °C:** Not determined
- **Solubility in / Miscibility with water:** Miscible
- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity:**
 - Dynamic:** Not determined
 - Kinematic:** Not determined

10 Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

No specific test data related to reactivity available for this product or its ingredients. The product does not contain peroxides (or any other explosive chemicals).

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

See SDS Section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

Strong acids, strong bases, halogens, reactive chemicals

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11 Toxicological information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Toxicological (health) effects

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Assessment: Causes severe skin burns.

Serious eye damage/irritation: Assessment: Causes serious eye damage.

Respiratory or skin sensitisation: Assessment: May cause respiratory irritation.

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: Assessment: No aspiration hazard expected.

Symptoms related to the physical, chemical and toxicological characteristics: Not available data.

Numerical measures of toxicity (such as acute toxicity estimates): Not available data.

Toxicological Data: Sodium Carbonate (CAS: 497-19-8, 6132-02-1)

Acute Toxicity:

Oral: 4090 mg/Kg (LD50 rat)

Inhalation: 2300 mg/m³ (LC50 (24h) rat)

Dermal: 2210 mg/Kg (LD50 mouse)

Toxicological Data: Trisodium Phosphate (CAS: 68439-54-3)

Oral – Rat LD50: 6,500 mg/kg; practically non-toxic

Dermal – Rabbit LD50: > 7940 mg/kg; practically non-toxic

Eye Irritation – Rabbit (4-Hr Exp.): corrosive

Skin Irritation – Rabbit: 3.3 / 8.0; moderately irritating

The anhydrous form of this material produced no mutagenic effects in standard assays using fruit flies.

This material has been defined as a hazardous chemical under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Toxicological Data: Sodium Metasilicate Pentahydrate (CAS: 10213-79-3)

LD50 oral: 1280 mg/Kg (rat)

12 Ecological information

Toxicity:

Eco toxicity

No relevant information available.

Persistence and Degradability

No relevant information available.

Bioaccumulation

No relevant information available.

Mobility in soil

No relevant information available.

Other Adverse Effects

No relevant information available.

Ecological Data: Sodium Carbonate (CAS: 497-19-8, 6132-02-1)

Ecotoxicity:

Fish: LC50 (96h): macrochirus: 300 mg/l

Fish: LC50 (96h): P. promelas (various age groups): 310 - 1220 mg/l

Crustacea – LC50; Species D. Magma: 265 mg/L

Persistence and Degradability: Readily degradable in the environment
Bioaccumulative Potential: No accumulation

Ecological Data: Trisodium Phosphate (CAS: 68439-54-3)

Invertebrate: 48h EC50 Daphnia magna: >1000 mg/L; Practically Non-toxic
Warm water Fish: 96h LC50 Bluegill sunfish: 440 mg/L; Practically Non-toxic
Coldwater Fish: 96h LC50 Rainbow Trout: 260 mg/L; Practically Non-toxic

Ecological Data: Sodium Metasilicate Pentahydrate (CAS: 10213-79-3)

Aquatic Toxicity: This material has exhibited moderate toxicity to aquatic organisms.
Biodegradation: This material is inorganic and not subject to biodegradation.
Persistence: This material is believed to persist in the environment.
Bioconcentration: This material is not expected to bioconcentrate in organisms.
Additional Ecological Information: This material has exhibited slight toxicity to terrestrial organisms.

13 Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

14 Transport information

UN Number: ADR/RID, IMDG, IATA: UN 3253
UN Proper Shipping Name: ADR/RID, IMDG, IATA: Corrosive solid, inorganic (sodium metasilicate pentahydrate)
Transport hazard class(es): 8
Packing group, if applicable: III
Environmental hazards: Not classified as pollutant.
Special precaution for user: Danger: Corrosive substances; See title 7
Transport in bulk according to Annex II of Marpol 73/78 and the IBCcode: Not applicable.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I:** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level
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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No-Effect Concentration
PNEC: Predicted No-Effect Concentration
VOC: Volatile Organic Compounds (USA, EU)
vPvB: very Persistent and very Bioaccumulative

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Corr. Met.: May be corrosive to metals.
Skin Corr. 1: Skin corrosion / irritation; Hazard Category 1
Skin Irrit. 2: Skin corrosion / irritation; Hazard Category 2
Eye Irrit. 2: Serious eye damage / eye irritation; Hazard Category 2
Acute Tox. (oral) 4: Acute oral toxicity; Hazard Category 4