

 Quality Tools for Smart Cleaning	<b>SAFETY DATA SHEET</b> <b>Unger Rubout Stain Remover</b> <b>UG (EU / EN)</b>	 Quality Tools for Smart Cleaning
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SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 04.11.2015

### 1.1. Product identifier

Product name Unger Rubout Stain Remover UG (EU / EN)

Article no. RUB20

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

Function Detergent

Product group Cleaning agents

Use of the substance/preparation Glass Cleaner - Non-Aerosol

Uses advised against No specific uses advised against are identified.

The chemical can be used by the general public Yes

### 1.3. Details of the supplier of the safety data sheet

Company name Unger Germany GmbH

Postal address Piepersberg 44

Postcode D-42653

City Solingen

Country Germany

Tel +49 (0) 212 2207 0

Fax +49 (0) 212 2207 137

E-mail [compliance@unger-europe.com](mailto:compliance@unger-europe.com)

Website <http://www.ungerglobal.com>

### 1.4. Emergency telephone number

Emergency telephone Business hours: Monday to Thursday 8 am - 5 pm, Friday 8 am - 4 pm: +49 (0) 212 22 07 0

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Eye Irrit. 2; H319; On basis of test data

### 2.2. Label elements

#### Hazard Pictograms (CLP)



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / 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. P405 Store locked up.
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### 2.3. Other hazards

Physico-chemical effects	cf. section 9 for physical-chemical information.
Health effect	May be harmful if swallowed. May irritate eyes and skin.
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential misuse	No information required.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Silicone dioxide (EU)	CAS no.: 7631-86-9 EC no.: 231-545-4 Registration number: 01-2119379499-16 IUPAC name: Silica, vitreous		10 < 20 % wt/wt
Sodium dodecylbenzene sulfonate (EU)	CAS no.: 25155-30-0 EC no.: 246-680-4 Synonyms: Sodium dodecylbenzene sulfonate	Acute tox. 4; H302 Acute tox. 4; H312 Eye Irrit. 2; H319	5 < 10 % wt/wt
Alcohols, C9-11 ethoxylated (EU)	CAS no.: 68439-46-3 EC no.: 614-482-0 Registration number: 01-2119980051-45 Synonyms: Alcohols, ethoxylated IUPAC name: Alcohols, C9-11 ethoxylated, < 2.5 EO	Eye Dam. 1; H318	5 < 10 % wt/wt
Description of the mixture	Aqueous solution of organic substances. Creme.		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Place unconscious person on the side in the recovery position and ensure breathing can take place. If medical advice is needed, have product container or label at hand.
Inhalation	Due to the small packaging the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest.
Skin contact	Wash skin with soap and water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Do NOT induce vomiting. If medical advice is needed, have product container or label at hand.

### 4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Burning sensation
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### 4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	Decontamination, symptomatic treatment. No special antidote known.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Hydrocarbons. Organic decomposition products. Sulfur dioxide (SO <sub>2</sub> ). Sulfur trioxide (SO <sub>3</sub> ).

### 5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid aerosol formation. Avoid contact with eyes and skin.
Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Hazardous combustion products	Cf. section 5

#### 6.1.2. For emergency responders

For emergency responders	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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### 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Sweep-up or pick-up with an industrial vacuum cleaner, store in closed container for disposal.
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### 6.4. Reference to other sections

Other instructions	Cf. section 8 for personal protection, and section 13 for waste disposal.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Store at moderate temperatures in dry, well ventilated area.
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#### Conditions for safe storage

Requirements for storage rooms and vessels	Storage in gateways, passages, stairways, hallways open to public, roofs, attics, cellars and work-rooms is not admissible.
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Advice on storage compatibility	No incompatibilities known.
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### 7.3. Specific end use(s)

Recommendations	cf. section 1.2
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

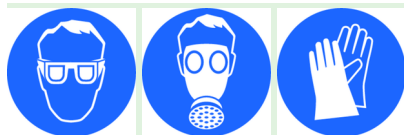
Substance	Identification	Value	TWA Year
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Silicone dioxide	CAS no.: 7631-86-9 EC no.: 231-545-4 Registration number: 01-2119379499-16	8-hour TWA: 6 mg/m <sup>3</sup> WEL - long-term value Workplace Exposure Limit / 8 hours (shift length) for inhalable aerosol EH40/2005 Workplace Exposure Limits (WEL) / Health and Safety Executive (HSE) / United Kingdom (U.K.) 8-hour TWA: 2,4 mg/m <sup>3</sup> WEL - long-term value Workplace Exposure Limit / 8 hours (shift length) for respirable aerosol EH40/2005 Workplace Exposure Limits (WEL) / Health and Safety Executive (HSE) / United Kingdom (U.K.)
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**DNEL / PNEC**

Recommended monitoring procedures

MDHS 14/8: General methods for sampling and gravimetric analyses of respirable and inhalable dust.

**8.2. Exposure controls****Safety signs****Precautionary measures to prevent exposure**

Organisational measures to prevent exposure

Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift.

Technical measures to prevent exposure

Use engineering controls to reduce air contamination to permissible exposure level.

**Respiratory protection**

Respiratory protection

Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

**Hand protection**

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

**Eye / face protection**

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

**Skin protection**

Skin protection (except hands)

Generally regular work clothing sufficient.

**Hygiene / Environmental**

Specific hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Liquid. Suspension.
Colour	White.
Odour	Characteristic. Mint.
Comments, pH (as supplied)	No data recorded.
pH (aqueous solution)	Value: 5 Method of testing: 1% aqueous solution
Comments, Boiling point / boiling range	No data recorded.
Comments, Flash point	No data recorded.
Comments, Evaporation rate	No data recorded.
Flammability (solid, gas)	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Density	Value: 1,099
Solubility in water	Unlimited miscible
Comments, Decomposition temperature	No data recorded.
Comments, Viscosity	No data recorded.
Explosive properties	Not explosive
Oxidising properties	Not oxidizing

## 9.2. Other information

Softening point	Comments: No data available
Content Of Voc	Comments: No data available

## Physical hazards

Comments, Particle size	No data recorded.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Stable in normal conditions.
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### 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.
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### 10.4. Conditions to avoid

Conditions to avoid	Protect from moisture.
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### 10.5. Incompatible materials

Materials to avoid	Strong acids.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Sulphurous gases (SO <sub>x</sub> ). Organic decomposition products.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological Information:

Other toxicological data	ATE (Oral) 3133.1 mg/kg bw ATE (Dermal) 14175.3 mg/kg bw
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#### Toxicological data for substances

Substance	Sodium dodecylbenzene sulfonate (EU)
LD50 oral	Value: 438 mg/kg bodyweight Animal test species: rat

LC50 inhalation	Value: 310 mg/m <sup>3</sup> Animal test species: rat Duration: 4 h
Eye damage or irritation, test results	Toxicity type: Eye damage Exposure time: 24 Hour Species: rabbit Result evaluation: strongly irritating Comments: 250 µg pure substance applied
Eye damage or irritation, test results	Toxicity type: Eye damage Species: rabbit Result evaluation: strongly irritating Comments: 1% aqueous solution applied
Eye damage or irritation, test results	Toxicity type: Skin irritation Exposure time: 24 Hour Species: rabbit Result evaluation: moderately irritating Comments: 20 mg pure substance applied

### Potential acute effects

Inhalation	No specific health warnings noted. Dust may irritate respiratory system.
Skin contact	No specific health warnings noted. Dust has an irritating effect on moist skin. Prolonged contact may cause redness and irritation.
Eye contact	No specific health warnings noted. Prolonged contact may cause redness and/or tearing. Causes serious eye irritation.
Ingestion	No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea.
Aspiration hazard	No information required.
Eye damage or irritation, test results	Toxicity type: Eye damage Method: OECD Guideline 437 / EU Method B.47 / Bovine Corneal Opacity and Permeability (BCOP Test) Species: In-vitro test on bovine cornea (Bos primigenius taurus) Test reference: Incubation time: 10 minutes at 32+-1°C Negative control: 0.9% sodium chloride solution Positive control: dimethyl formamide (DMF) Comments: Negative control: IVIS 0,45 Positive control: IVIS 103,57 Sample: IVIS 15,25 Result: negative / product is not to be classified as eye damaging, but precautionary is to be classified as eye irritating.

### Delayed effects / repeated exposure

Sensitisation	No specific health warnings noted.
STOT-single exposure	No data available, probably no subchronic toxicity
STOT-repeated exposure	No data available, probably no chronic toxicity

### Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Teratogenic properties	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicological data for substances

Substance	Sodium dodecylbenzene sulfonate (EU)
Acute aquatic, fish	Value: 1,18 ppm

	Method of testing: unknown Species: Lepomis macrochirus Duration: 96 hours Test reference: freshwater
Acute aquatic, algae	Value: 112,4 mg/l Method of testing: unknown Species: Pseudokirchnerella subcapitata Duration: 72 hours
Acute aquatic, Daphnia	Value: 5,88 ppm Method of testing: unknown Species: Daphnia magna Duration: 48 hours Test reference: freshwater
Distribution coefficient	Value: 1,96 Method of testing: unknown Comments: Log Kow

## 12.2. Persistence and degradability

Persistence and degradability All organic components are considered biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

## 12.4. Mobility in soil

Mobility No data on possible environmental effects have been found.

## 12.5. Results of PBT and vPvB assessment

PBT assessment results This product does not contain any PBT or vPvB substances.

## 12.6. Other adverse effects

Comments, Ozone depletion potential Ozone depletion potential not known

Comments, Photochemical ozone creation Ozone formation potential not known

Comments Global warming potential Global greenhouse effect not known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required.

Relevant waste regulation European Waste Inventory according to the Decision 2014/955/EU on the list of waste

Hazardous waste packing Submit the contaminated packagings to take-back systems or to a regulated recycling or disposal by an approved disposal company.

Product classified as hazardous waste No

Packaging classified as hazardous waste No

EWC waste code EWC: 070601 aqueous washing liquids and mother liquors

## SECTION 14: Transport information

### 14.1. UN number

Comments No recommendation given.

### 14.2. UN proper shipping name

Comments No recommendation given.

### 14.3. Transport hazard class(es)

Comments No recommendation given.

**14.4. Packing group**

Comments	No recommendation given.
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**14.5. Environmental hazards**

Comments	No recommendation given.
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**14.6. Special precautions for user**

Special safety precautions for user	No recommendation given.
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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Product name	No recommendation given.
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**Additional information.**

Additional information.	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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**ADR / RID - Other information**

ADR Other information	No recommendation given.
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**ADN - Other information**

Other information	No recommendation given.
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**IMDG / ICAO / IATA Other information**

IMDG Other information	No recommendation given.
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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Detergents	Ingredients according to the Regulation on Detergents (EC) No. 648/2004: more than 5% to less than 15% anionic surfactants, nonionic surfactants; contains fragrance.
EEC-directive	Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 and Regulation (EC) 2015/830 This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
References (laws/regulations)	Other UK regulations and guidances: Health and Safety at Work Act 1974. The Management of Health and Safety at Work regulations 1992. L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002. Approved codes of practice and guidance. Guidance Note EH40 – Occupational Exposure Limits. BS EN ISO 10882-1:2001 – health and safety in welding and allied processes – sampling of air-borne particles and gases in the operator's breathing zone – part 1: sampling of airborne particles.

**15.2. Chemical safety assessment**

Chemical safety assessment performed	No
Chemical Safety Assessment	No data recorded.
Exposure scenarios for mixture	No
Exposure Scenario Comments	No recommendation given.

**SECTION 16: Other information**

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in
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	accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Eye Irrit. 2; H319; On basis of test data
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H312 Harmful in contact with skin. H319 Causes serious eye irritation.
Training advice	No information required.
Recommended restrictions on use	Not relevant.
User notes	In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.
Version	1
Responsible for safety data sheet	Unger Germany GmbH