



SAFETY DATA SHEET

SCRUBS Stainless Steel

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 20.01.2015

1.1. Product identifier

Product name SCRUBS Stainless Steel
Specification No. L23000000071
Article no. DY91930

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

Use of the substance/preparation Steel cleaning and care product.
Relevant identified uses SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
PC35 Washing and cleaning products (including solvent based products)
PROC2 Use in closed, continuous process with occasional controlled exposure
PROC7 Industrial spraying
PROC10 Roller application or brushing
ERC8A Wide dispersive indoor use of processing aids in open systems
ERC8D Wide dispersive outdoor use of processing aids in open systems
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Company name Kleinmann GmbH
Postal address Am Trieb 13
Postcode D-72820
City Sonnenbuehl
Country Germany
Tel +49(0)7128/9292-15
Fax +49(0)7128/9292-415
E-mail chemie@kleinmann.net
Website <http://www.kleinmann.net>
Enterprise no. DE 146 487

1.4. Emergency telephone number

Emergency telephone 8-12, Mo.-Fr.:+49(0)7128/9292-15

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Substance / mixture hazardous properties For further information, please refer to section 11.

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label	Orange terpenes, Hydrocarbons, C11-C13, Isoalkane, < 2% aromat, Hydrocarbons, C12-C16, Isoalkane, Cyclene, <2% Aromat, Hydrocarbons, C11-C12, Isoalkane, <2% Aromat
Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	EUH 066 Repeated exposure may cause skin dryness or cracking. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P280 Wear protective gloves. P273 Avoid release to the environment. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

2.3. Other hazards

Description of hazard	Ingestion may cause some of the product to enter the lungs and cause chemical pneumonitis. The risk increases with vomiting, which may occur spontaneously due to irritation of the mucous membranes.
Health effect	May cause an allergic skin reaction. Prolonged skin contact may cause redness, irritation and dry skin. See section 11 for additional information on health hazards.
Environmental effects	The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
White Mineral Oil	CAS no.: 8042-47-5 EC no.: 232-455-8		10 - 30 %
Orange terpenes	CAS no.: 8028-48-6 EC no.: 232-433-8 Registration number: 02-2119675252-39-XXXX	Xn,Xi,N; R10,R38,R43, R50/53,R65 Flam. Liq. 3;H226; Asp. tox 1;H304; Skin Sens. 1;H317; Skin Irrit. 2;H315; Aquatic Chronic 1;H410;	1 - 10 %
2,6-Di-tert-butyl-p-cresol	CAS no.: 128-37-0 EC no.: 204-881-4	N; R50/53 Aquatic Acute 1; H400; Aquatic Chronic 1; H410;	< 1 %
Hydrocarbons, C11-C13, Isoalkane, < 2% aromat	EC no.: 920-901-0 Registration number: 01-2119456810-40	Asp. tox 1;H304; EUH 066;	10 - 20 %
Hydrocarbons, C12-C16, Isoalkane, Cyclene, <2% Aromat	EC no.: 927-676-8 Registration number: 01-2119456377-30	Asp. tox 1;H304; EUH 066;	25 - 50 %
Hydrocarbons, C11-C12, Isoalkane,	EC no.: 918-167-1	Asp. tox 1;H304;	10 - 20 %

<2% Aromat	Registration number: 01-2119472146-39	EUH 066;	
Substance comments	>30%: alifatic hydrocarbons The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Fresh air. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Consumption of larger quantities can result in nausea, vomiting and stomach pains. DO NOT INDUCE VOMITING! Get medical attention if any discomfort continues.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

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

Acute symptoms and effects	As described in section 2.2 and 2.3.
Delayed symptoms and effects	No known long term effects.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed.
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5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Wear necessary protective equipment. For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillage with sand, sawdust or other absorbent. Wash contaminated area with water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid inhalation of vapours/spray and contact with skin and eyes. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage

Storage Temperature Value: -5-35 °C

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Oil spray (mineral oil particles)		8-hour TWA: 1 mg/m ³	

DNEL / PNEC

Summary of risk management measures, human Data lacking.

Summary of risk management measures, environment Data lacking.

8.2. Exposure controls

Recommended monitoring procedures Not known.

Limitation of exposure on workplace Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety signs



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 vapours, use suitable respiratory equipment with combination filter (type A2/P2).

Hand protection

Hand protection Protective gloves should be used if there is a risk of direct contact or splash. Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.

Eye / face protection

Eye protection Eye protection is not required under normal conditions.

Skin protection

Skin protection (except hands) No special precautions.

Thermal hazards

Thermal hazards See section 5.

Appropriate environmental exposure control

Environmental exposure controls See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	wet wipes
Colour	Colourless.
Odour	Odourless.
Comments, Odour limit	No data recorded.
Comments, pH (as supplied)	No data recorded.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Flash point	Value: 72 °C
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Data lacking.
Comments, Vapour pressure	Data lacking.
Comments, Vapour density	Data lacking.
Specific gravity	Value: ~ 0,8 g/mL
Comments, Bulk density	Not relevant.
Solubility description	Immiscible with water.
Comments, Partition coefficient: n-octanol / water	Data lacking.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	No data recorded.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Physical hazards

Comments, Dropping point	Not relevant.
Comments, Permeation rate	Not relevant.
Comments, Pour point	Not relevant.
Comments, Particle size	Not relevant.
Comments, Critical pressure	Not relevant.
Comments, Expansion coefficient	Not relevant.
Comments, Redox potential	Not relevant.
Comments, Radical formation potential	Not relevant.
Comments, Photocatalytic properties	Not relevant.

Other physical and chemical properties

Comments	No data recorded.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No information required.

10.4. Conditions to avoid

Conditions to avoid No information required.

10.5. Incompatible materials

Materials to avoid No information required.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data Toxicological tests on the product has not been performed.

Toxicological data for substances

Substance No data available for ingredient(s).

LD50 oral
Value: - -
Animal test species: -
Duration: -
Comments: -

Substance Hydrocarbons, C11-C13, Isoalkane, < 2% aromat

LD50 oral
Value: > 5000 mg/kg
Animal test species: Rat
Test reference: OECD 401

LD50 dermal
Value: > 5000 mg/kg
Animal test species: Rabbit
Test reference: OECD 402

LC50 inhalation
Value: > 5000 mg/m³
Animal test species: Rat
Duration: 4h
Test reference: OECD 403

Substance Hydrocarbons, C12-C16, Isoalkane, Cyclene, <2% Aromat

LD50 oral
Value: > 5000 mg/kg
Animal test species: Rat
Test reference: OECD 401

LD50 dermal
Value: > 5000 mg/kg
Animal test species: Rabbit
Test reference: OECD 402

LC50 inhalation
Value: > 5000 mg/m³
Animal test species: Rat
Duration: 4h
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Substance Hydrocarbons, C11-C12, Isoalkane, <2% Aromat

LD50 oral
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Animal test species: Rat
Test reference: OECD 401

LD50 dermal
Value: > 5000 mg/kg
Animal test species: Rabbit
Test reference: OECD 402

LC50 inhalation
Value: > 5000 mg/m³
Animal test species: Rat
Duration: 4h
Test reference: OECD 403

Other information regarding health hazards

General No information about adverse effects due to exposure.

Potential acute effects

Inhalation Aerosols irritate the respiratory system, and may cause coughing and

Skin contact	difficulties in breathing. In rare cases skin contact with d-limonene may cause sensitization. Prolonged or frequent contact may cause redness, itching, eczema and skin cracking.
Eye contact	Irritating and may cause redness and pain.
Ingestion	Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. Aspiration during vomiting or ingestion may cause pulmonary edema. Not likely, due to the packaging.

Symptoms of Exposure

Symptoms of overexposure	No specific symptoms noted.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms. Contains a substance (N;R50 or N;R50/53) that falls within the scope of the multiplication factor rule.
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Toxicological data for substances

Substance	No data available for ingredient(s).
Aquatic, comments	-
Substance	Hydrocarbons, C11-C13, Isoalkane, < 2% aromat
Acute aquatic, fish	Value: 1000 mg/l Method of testing: LC0 Species: Fish Duration: 96h
Acute aquatic, Daphnia	Value: 1000 mg/l Method of testing: EC0 Duration: 48h
Persistence and degradability	The product is easily biodegradable.
Substance	Hydrocarbons, C12-C16, Isoalkane, Cyclene, <2% Aromat
Acute aquatic, fish	Value: 1000 mg/l Method of testing: LC0 Species: Fish Duration: 96h
Acute aquatic, Daphnia	Value: 1000 mg/l Method of testing: EC0 Duration: 48h
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Substance	Hydrocarbons, C11-C12, Isoalkane, <2% Aromat
Acute aquatic, fish	Value: 1000 mg/l Method of testing: LC0 Species: Fish Duration: 96h
Acute aquatic, Daphnia	Value: 1000 mg/l Method of testing: EC0 Duration: 48h
Persistence and degradability	The product is easily biodegradable.

12.2. Persistence and degradability

Persistence and degradability	There are no data on the degradability of this product.
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
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12.4. Mobility in soil

Mobility	The product is insoluble in water and will spread on the water surface.
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12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Environmental details, summation Product is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container in a safe way. Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	No
Packaging classified as hazardous waste	No
EWC waste code	EWC: 1502 absorbents, filter materials, wipingcloths and protective clothing
Other Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information

14.1. UN number

Comments The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

ADR	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
RID	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.

14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information.

Additional information. Not relevant.

SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.
Other Label Information	For professional users only.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). Regulation (EC) No 1907/2006 of the European Parliament and of the Council

of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant R-phrases (under headings 2 and 3).	R43 May cause sensitization by skin contact. R65 Harmful: may cause lung damage if swallowed. R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R10 Flammable.
List of relevant H-phrases (Section 2 and 3).	H304 May be fatal if swallowed and enters airways. H226 Flammable liquid and vapour. H400 Very toxic to aquatic life. H315 Causes skin irritation. H317 May cause an allergic skin reaction. EUH 066 Repeated exposure may cause skin dryness or cracking. H410 Very toxic to aquatic life with long lasting effects.
Training advice	No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Information which has been added, deleted or revised	New safety data sheet.
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	IB