



SAFETY DATA SHEET

SCRUBS Anti Graffiti

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 12.02.2015

Revision date 16.03.2015

1.1. Product identifier

Product name SCRUBS Anti Graffiti

Specification No. L23000000092

Article no. DY90130

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

Product group Specialty products

Use of the substance/preparation Graffiti remover - wet wipes.

Relevant identified uses
SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
PC35 Washing and cleaning products (including solvent based products)
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

Distributor

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

Classification according to EUH 066;

Regulation (EC) No 1272/2008 Eye Dam. 1;H318;

[CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label	Gamma-butyrolactone
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P280 Wear eye protection/protective gloves. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
Supplemental label information	EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Description of hazard	Irritating to eyes. Vapour or splashes to the eyes may cause redness, smarting and discomfort. Repeated exposure may cause skin dryness or cracking. The product is combustible, but not flammable.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Dimethylsuccinate	CAS no.: 106-65-0 EC no.: 203-419-9	Xi; R36	10 - 30 %
Gamma-butyrolactone	CAS no.: 96-48-0 EC no.: 202-509-5	Xn, Xi; R22, R41	1 - 5 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Registration number: 01-2119457558-25-XXXX Synonyms: Propan-2-ol	F; R11 Xi; R36 R67 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	5 - 15 %
Substance comments	<5%: nonionic surfactant 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	Move into fresh air and keep at rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water. Contact physician if irritation continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly. Get medical attention if any discomfort continues.

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

Delayed symptoms and effects	Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, nausea and in serious cases unconsciousness.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information In case of unconsciousness or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards This product is not flammable. In case of fire, toxic gases may be formed (COx, NOx).

5.3. Advice for firefighters

Personal protective equipment Wear necessary protective equipment. For personal protection, see section 8. In case of inadequate ventilation wear respiratory protection.

Fire fighting procedures Move container from fire area if it can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid contact with skin and eyes. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures Collect and dispose of spillage as indicated in section 13.

6.3. Methods and material for containment and cleaning up

Cleaning method Collect in containers and seal securely.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid inhalation of vapours and contact with skin and eyes. Provide good ventilation. Pregnant women should not work with the product, if there is the least risk of exposure.

7.2. Conditions for safe storage, including any incompatibilities

Storage Always store proper, out of the reach of children and not together with food, feed, medicine and the like. Store above freezing. Store in closed original container in a dry place.

Conditions for safe storage

Storage Temperature Value: -10-30 °C

Storage Stabilit Durability: 24 months.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Dimethylsuccinate	CAS no.: 106-65-0 EC no.: 203-419-9		
Gamma-butyrolactone	CAS no.: 96-48-0 EC no.: 202-509-5		
Propan-2-ol	CAS no.: 67-63-0	8-hour TWA: 400 ppm	2011

EC no.: 200-661-7	8-hour TWA: 999 mg/m ³
Index no.: 603-117-00-0	15 min.: 500 ppm
Registration number: 01-2119457558-25-XXXX	15 min.: 1250 mg/m ³
Synonyms: Propan-2-ol	

DNEL / PNEC from substances

Substance	Propan-2-ol
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 26 mg/kg bw/day Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 89 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 319 mg/kg bw/day Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 500 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 888 mg/kg bw/day Remarks: ECHA
PNEC	Exposure route: Saltwater sediments Value: 552 mh/kg
PNEC	Exposure route: Freshwater Value: 140,9 mg/l
PNEC	Exposure route: Soil Value: 25 mg/kg
PNEC	Exposure route: Saltwater Value: 140,9 mg/l
PNEC	Value: 140,9 Remarks: Intermittent releases
PNEC	Exposure route: Sewage treatment plant STP Value: 2251 mg/l
PNEC	Exposure route: Freshwater sediments Value: 552 mg/kg

8.2. Exposure controls

Limitation of exposure on workplace All handling to take place in well-ventilated area.

Respiratory protection

Respiratory protection Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation: Use respiratory equipment with combination filter, type A2/P2.

Hand protection

Hand protection Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.
Breakthrough time Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours.
The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced.
The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C.
The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

Eye / face protection

Eye protection Wear approved safety goggles. (EN 166).

Other Information

Other Information No information required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	wet wipes
Colour	White.
Odour	Characteristic.
Comments, Odour limit	Not relevant.
Comments, pH (as supplied)	Not relevant.
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Comments, Flash point	Not relevant.
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Comments, Vapour density	Not relevant.
Specific gravity	Value: ~ 1,08 mg/l
Solubility description	Forms an emulsion with water.
Comments, Partition coefficient: n-octanol / water	Not relevant.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not relevant.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties No data recorded.

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 See section 10.4 and section 10.5.

10.4. Conditions to avoid

Conditions to avoid Extremes of temperatures.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates).

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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	Propan-2-ol
LD50 oral	Value: 5840 mg/kg Animal test species: rat Duration: single dose Test reference: OECD 401 Comments: ECHA
LD50 dermal	Value: 16,4 mL/kg Animal test species: rabbit Duration: 24h Test reference: OECD 402 Comments: ECHA
LC50 inhalation	Value: > 10000 ppm Animal test species: rat Duration: 6h Test reference: OECD 403 Comments: ECHA
Acute toxicity	Inhalation: Species: Rat. Result: Drowsiness, dizziness, disorientation, vertigo. Duration: -. Method of testing: OECD 426. ECHA
Serious eye damage / irritation	Species: Rabbit. Result: Irritation to eye. Duration: Single dose. Method of testing: OECD 405 . ECHA

Potential acute effects

Inhalation	Vapour may irritate respiratory system or lungs.
Skin contact	May cause defatting of the skin, but is not an irritant.
Eye contact	Causes serious eye damage. May cause permanent damage to eyes, especially if the product is not washed away IMMEDIATELY.

Symptoms of Exposure

Symptoms of overexposure Drowsiness, dizziness, disorientation, vertigo.

SECTION 12: Ecological information**12.1. Toxicity**

Aquatic, comments No data available for the product.

Toxicological data for substances

Substance	Propan-2-ol
Acute aquatic, fish	Value: 8970-9280 mg/l Method of testing: LC50 Species: Leuciscus idus melanotus Duration: 48h
Acute aquatic, algae	Value: 1800 mg/l Method of testing: TGK Species: Scenedesmus quadricauda Duration: 8d
Acute aquatic, Daphnia	Value: 9715 mg/l Method of testing: LC50 Species: Daphnia magna Duration: 24h
Mobility, description	Mobility, description: The product is water soluble and may spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Biodegradability	Value: 95 Test period: 21d Method of testing: OECD 301E
Bioaccumulation	The product is not bioaccumulating.
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.

12.2. Persistence and degradability

Persistence and degradability The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is miscible with water. May spread in water systems.

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 For this product no classification is required for environmental hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not dispose of residues and waste down the drains. 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: 200113 solvents
Other Information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

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).

The labelling "Eye Dam 1 - H318" does not require classification as dangerous goods.

14.2. UN proper shipping name

Comments Not relevant.

14.3. Transport hazard class(es)

Comments Not relevant.

14.4. Packing group

Comments Not relevant.

14.5. Environmental hazards

Comments Not relevant.

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. No other information noted.

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.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). EH40/2005, Workplace exposure limits 2005, with amendments. 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. Forskrift om forplantningsskader og arbeidsmiljø, 25.08.1995 nr. 768, med endringer. 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

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	; EUH 066; Eye Dam. 1; H318;
List of relevant R-phrases (under headings 2 and 3).	R67 Vapours may cause drowsiness and dizziness. R36 Irritating to eyes. R11 Highly flammable. R22 Harmful if swallowed. R41 Risk of serious damage to eyes.

List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H336 May cause drowsiness or dizziness. EUH 066 Repeated exposure may cause skin dryness or cracking. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Training advice	No particular training or education is required but the user must be familiar with this SDS. -
Information which has been added, deleted or revised	All sections of the safety data sheet is updated. Labeling changed to CLP
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	MP