

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

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

1.1 Product identifier

• **Identification of the substance/preparation:** *Dr. Schutz Super Stain Remover R*

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

• Sector of Use

SU21 Consumer uses: Private households / general public / consumers

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

• **Application of the substance / the mixture** Cleaning material/ Detergent

• 1.3 Details of the supplier of the safety data sheet

• Company/undertaking identification:

Dr. Schutz GmbH

Holbeinstr. 17

D-53175 Bonn

Germany

Tel.: +49(0)228-95352-0,

Fax: +49(0)228-95352-28

info@dr-schutz.com

For the UK:

Dr. Schutz UK Ltd.

Unit 24, Anglo Business Park,

Smeaton Close, Aylesbury Bucks

HP19 8UP

Tel.: 0044 / 1296 437827

Fax: 0044 / 1296 334219

email: steve@dr-schutz.com

• **Further information obtainable from:** Department for product development

• 1.4 Emergency telephone number:

GBK Gefahrgut Büro GmbH

telephone: +49 (0)6132 84463

(24-Hour-Number)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

• **Classification according to Regulation (EC) No 1272/2008**



flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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**



GHS02 GHS07

• **Signal word** Danger

• **Hazard-determining components of labelling:**

n-butyl acetate

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 1)

1-methoxy-2-propanol
ethyl acetate

- **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

- **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

- **2.3 Other hazards**

- **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.

- **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure ⚠ Flam. Gas 1A, H220; ⚠ Acute Tox. 3, H331; Press. Gas (Comp.), H280	10-25%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	≥20-≤25%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥10-<20%

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 2)

CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane (containing $\geq 0,1\%$ butadiene (203-450-8)) ⚠ Flam. Gas 1A, H220; ⚠ Muta. 1B, H340; Carc. 1A, H350; Press. Gas (Comp.), H280	5-10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1A, H220; ⚠ Acute Tox. 1, H330; Press. Gas (Comp.), H280	1-5%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	$\geq 0.1 - < 0.25\%$

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	$\geq 15 - < 30\%$
allergenic fragrances, LIMONENE	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out into the fresh air.
Do not leave affected persons unattended.
Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Seek medical treatment.
Rinse out mouth and then drink plenty of water.

· **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:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet
Not applicable.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear fully protective suit.

· **Additional information**

Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with the eyes and skin.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 3)

Do not inhale gases / fumes / aerosols.

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Allow to evaporate.

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **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**

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Exposure limit values:**

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 4)

106-97-8 butane, pure

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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107-98-2 1-methoxy-2-propanol

WEL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
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141-78-6 ethyl acetate

WEL	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
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- **DNELs** No further relevant information available.
- **PNELs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as 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.
Store protective clothing separately.

Respiratory protection:

Not necessary if room is well-ventilated.

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Material of gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.9 mm

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

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level x).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Where there is a danger of the eyes coming into contact with splashes of liquid (i.e. when refilling larger quantities), safety goggles according to EN 166 (i.e. goggles with side shields) are recommended.



Tightly sealed goggles

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 5)

- **Body protection:**
Not required.
Light weight protective clothing

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

- **Physical state** Aerosol
- **Colour:** Colourless
- **Odour:** Ether-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** -44°C
- **Flammability** Extremely flammable liquefied gas.
- **Lower and upper explosion limit**
- **Lower:** 1.2 Vol %
- **Upper:** 13.7 Vol %
- **Flash point:** -97°C (Seta Flash Closed Cup)
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH** Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20°C:** 2,500-4,000 hPa
- **Density and/or relative density**
- **Density at 20°C:** 0.775 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

· **9.2 Other information**

- **Appearance:**
- **Form:** Aerosol
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** 270°C
- **Explosive properties:** Not determined.
- **Solvent content:**
- **Organic solvents:** 92.0 %
- **VOC (EC)** 100.0 %
- **Change in condition**
- **Evaporation rate** Not applicable.

· **Information with regard to physical hazard classes**

- **Explosives** Not applicable
- **Flammable gases** Not applicable
- **Aerosols** Extremely flammable aerosol. Pressurised container: May burst if heated.
- **Oxidising gases** Not applicable
- **Gases under pressure** Not applicable

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 6)

· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section "Possibility of hazardous reactions".
- **10.2 Chemical stability** No information available.
- **Conditions to avoid:** Danger of bursting in case of strong heating or misuse of the packing.
- **10.3 Possibility of hazardous reactions**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

· LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>21 mg/l (rat)

106-97-8 butane, pure

Inhalative	LC50/4h	658 mg/l (rat)
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107-98-2 1-methoxy-2-propanol

Oral	LD50	5,200 mg/kg (rat)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4h	54.6 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4h	1,600 mg/l (rat)

74-98-6 propane

Inhalative	LC50/4h	>20 mg/l (rat)
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5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4,400 mg/kg (rat)
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- **Skin corrosion/irritation** No data available.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 7)

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

123-86-4 n-butyl acetate

EC50/48h | 205 mg/l (Daphnia magna)

107-98-2 1-methoxy-2-propanol

EC50/48h | 23,300 mg/l (Daphnia magna)

5989-27-5 (R)-p-mentha-1,8-diene

EC50/48h | 0.4 mg/l (Daphnia magna)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods Disposal must be made according to official regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN1950

· 14.2 UN proper shipping name

· ADR

1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 8)

· 14.3 Transport hazard class(es)

· ADR



- Class 2.5F Gases.
- Label 2.1

· IMDG, IATA



- Class 2.1
- Label 2.1

· 14.4 Packing group

- ADR, IMDG, IATA Not applicable

· 14.5 Environmental hazards:

- Marine pollutant: No

· 14.6 Special precautions for user

- Hazard identification number (Kemler code): -
- EMS Number: F-D,S-U
- Stowage Code SW1 Protected from sources of heat.
SW2 Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.
- Segregation Code

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

· ADR

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
- Transport category 2
- Tunnel restriction code D

· IMDG

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

- UN "Model Regulation": UN 1950 AEROSOLS, 2.1

GB

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 9)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a FLAMMABLE AEROSOLS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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**
 - H220 Extremely flammable gas.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H330 Fatal if inhaled.
 - H331 Toxic if inhaled.
 - H336 May cause drowsiness or dizziness.
 - H340 May cause genetic defects.
 - H350 May cause cancer.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** Department for product development
- **Contact:** Dr. Reindl
- **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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2021

Version number 11

Revision: 29.04.2021

Identification of the substance/preparation: *Dr. Schutz Super Stain Remover R*

(Contd. of page 10)

Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1A: Carcinogenicity – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

GB