

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/01/2015

Reviewed on 10/01/2015

1 Identification· **Product identifier**· **Trade name:** *Dr. Schutz ReNew (1-Step)*· **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** Bath cleaner· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**

Supplier:

CC-Dr. Schutz GmbH

Holbeinstraße 17

D-53175 Bonn

Tel: +49 228/95 35 2-0

Fax: +49 228/95 35 2-46

E-Mail: export@dr-schutz.com

Import:

Dr. Schutz NA

219 Monroe St

Stowe PA 19464

Tel.: 001/877 2724889

E-Mail: sam@schutzna.com

· **Information department:**

Department for product development

E-Mail: sam@schutzna.com

· **Emergency telephone number:**

GBK Gefahrgut Büro GmbH

telephone: +49 (0)6132 84463

(24-Hour-Number)

2 Hazard(s) identification· **Classification of the substance or mixture**

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· **Label elements**· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS02 GHS05

· **Signal word** Danger· **Hazard-determining components of labeling:**

Isotridecanol, exthoxylated (<7 - > 15 EO)

phosphoric acid

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Sulfonic acids, C13-17-sec-alkane, sodium salts

• **Hazard statements**

Highly flammable liquid and vapor.

Causes severe skin burns and eye damage.

• **Precautionary statements**

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

• **NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 3

Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**

Health = 2

Fire = 3

Reactivity = 0

• **Other hazards**• **Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.**3 Composition/information on ingredients**• **Chemical characterization: Mixtures**• **Description:** Mixture of the substances listed below with nonhazardous additions.• **Dangerous components:**

	non-ionic surfactants	1-5%
	anionic surfactants	1-5%
7664-38-2	phosphoric acid	10-25%
67-63-0	propan-2-ol	5-10%
111-76-2	2-butoxyethanol	1-5%

4 First-aid measures• **Description of first aid measures**• **General information:**

Personal protection for the First Aider.

Seek medical treatment.

Immediately remove any clothing soiled by the product.

• **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.• **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:**
Not applicable.
Water with full jet
- **Special hazards arising from the substance or mixture**
In case of fire, the formation of black, dense smoke is possible. Smoke contains potentially hazardous combustion products.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
- **Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Keep receptacles tightly sealed.
Avoid contact with the eyes and skin.
Wear protective equipment. Keep unprotected persons away.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Follow instructions on the label and in the Technical Product Information Sheet.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
Protect against electrostatic charges.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Provide acid-resistant floor.
Store in a cool location.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:****7664-38-2 phosphoric acid**

PEL	Long-term value: 1 mg/m ³
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³

67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

· **Ingredients with biological limit values:****67-63-0 propan-2-ol**

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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- **Additional information:** The lists that were valid during the creation were used as basis.

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· **Exposure controls**· **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.
 Use skin protection cream for skin protection.
 Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use suitable respiratory protective device only when aerosol or mist is formed.
 Filter P2

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Butyl rubber, BR Nitrile
 rubber, NBR
 Chloroprene rubber, CR

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**

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

· **Eye 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

· **Body protection:** Light weight protective clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Fluid
Color:	Colorless
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C (68 °F):	0.6
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· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

Flash point:	15 °C (59 °F) (Seta Flash Closed Cup)
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Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	360 °C (680 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 20 °C (68 °F):	1.065 g/cm ³ (8.887 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	27 s (ISO 3 mm)
· Solvent content:	
VOC content ASTM D3960:	12.1 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions".
- **Chemical stability** No information available.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Violent reactions with strong alkalis and oxidizing agents.
- **Conditions to avoid** Heat, flames and sparks.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:

7664-38-2 phosphoric acid

Oral	LD50	1530 mg/kg (rat)
Dermal	LD50	2740 mg/kg (rabbit)

67-63-0 propan-2-ol

Oral	LD50	4750 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/l (rat)

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69011-36-5 Isotridecanol, exthoxylated (<7 - > 15 EO)

Oral	LD50	300-2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

111-76-2 2-butoxyethanol

Oral	LD50	1746 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
Inhalative	LC50/4h	2 - 20 mg/l (rat)

85711-69-9 Sulfonic acids, C13-17-sec-alkane, sodium salts

Oral	LD50	>2000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

67-63-0	propan-2-ol	3
111-76-2	2-butoxyethanol	3
	D-Limonen	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information· **Toxicity**· **Aquatic toxicity:****7664-38-2 phosphoric acid**

LC50/96h (static)	75.1 mg/l (fish) (OECD 203)
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67-63-0 propan-2-ol

LC50/96h (dynamic)	10000 mg/l (fish) (OECD 203)
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69011-36-5 Isotridecanol, exthoxylated (<7 - > 15 EO)

EC50/48h (static)	>1 - 10 mg/l (Daphnia magna) (OECD 202)
LC50/96h (dynamic)	>1 - 10 mg/l (Cyprinus carpio (Karpfen)) (OECD 203)

111-76-2 2-butoxyethanol

LC50/96h (static)	1474 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (OECD 203)
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85711-69-9 Sulfonic acids, C13-17-sec-alkane, sodium salts

LC50/96h	1-5 mg/l (Danio rerio) (OECD 203)
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- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A

low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably

increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods** Disposal must be made according to official regulations.· **Recommendation:**

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

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.· **Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport information**· **UN-Number**· **DOT, ADR, IMDG, IATA**

UN2924

· **UN proper shipping name**· **DOT**

Flammable liquids, corrosive, n.o.s. (Isopropanol, Phosphoric acid solution)

· **ADR**

2924 Flammable liquids, corrosive, n.o.s. (Isopropanol, Phosphoric acid solution)

· **IMDG, IATA**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), PHOSPHORIC ACID, SOLUTION)

· **Transport hazard class(es)**· **DOT**· **Class**

3 Flammable liquids

· **Label**

3, 8

· **ADR**· **Class**

3 Flammable liquids

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· Label	3+8
· IMDG	
 	
· Class	3 Flammable liquids
· Label	3/8
· IATA	
 	
· Class	3 Flammable liquids
· Label	3 (8)
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	338
· EMS Number:	F-E,S-C
· Segregation groups	Acids
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN2924, Flammable liquids, corrosive, n.o.s. (Isopropanol, Phosphoric acid solution), 3 (8), II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7664-38-2 phosphoric acid

67-63-0 propan-2-ol

111-76-2 2-butoxyethanol

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· **TSCA (Toxic Substances Control Act):**

7664-38-2	phosphoric acid
67-63-0	propan-2-ol
69011-36-5	Isotridecanol, exthoxylated (<7 - > 15 EO)
111-76-2	2-butoxyethanol
	D-Limonen
5392-40-5	Citral
80-56-8	pin-2(3)-ene
7732-18-5	water, distilled, conductivity or of similar purity

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogen categories**· **EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL
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· **TLV (Threshold Limit Value established by ACGIH)**

67-63-0	propan-2-ol	A4
111-76-2	2-butoxyethanol	A3
80-56-8	pin-2(3)-ene	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS02 GHS05

· **Signal word** Danger· **Hazard-determining components of labeling:**

Isotridecanol, exthoxylated (<7 - > 15 EO)
 phosphoric acid
 Sulfonic acids, C13-17-sec-alkane, sodium salts

· **Hazard statements**

Highly flammable liquid and vapor.
 Causes severe skin burns and eye damage.

· **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Store in a well-ventilated place. Keep container tightly closed.

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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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.

· **Department issuing SDS:** Department for product development· **Contact:** Dr. Olaf Janßen· **Date of preparation / last revision** 10/01/2015 / 1· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

· *** Data compared to the previous version altered.**

US