

KERN[®]

rinting date 29.03.2016	Version Nr: 1	Revision: 29.03.20
SECTION 1: Identificatio undertaking	n of the substance/mixture a	and of the company/
· 1.1 Product identifier		
· Trade name Lens cleaning	spray	
 1.2 Relevant identified uses o Application of the substance 	f the substance or mixture and us / the mixture Cleaning material	ses advised against None.
 1.3 Details of the supplier of t Manufacturer/Supplier: SUPPLIER: KERN & Sohn GmbH Ziegelei 1 D-72336 Balingen Deutschland / Germany 	he safety data sheet	
· Informing department: Kern &	Sohn GmbH; +49 (0) 7433 9933-15	55; daniel.junger@kern-sohn.con
• 1.4 Emergency telephone nur GIZ-Nord, Göttingen, Germany Member of EPECS Network E M E R G E N C Y N U M B E		
SECTION 2: Hazards ide	ntification	
 2.1 Classification of the subst Classification according to Re The product is not classified according 	egulation (EC) No 1272/2008	
 2.2 Label elements Labelling according to Regula Hazard pictograms Void Signal word Void Hazard statements Void Additional information: EUH210 Safety data sheet avai 2.3 Other hazards Results of PBT and vPvB ass PBT: Not applicable. vPvB: Not applicable. 	lable on request.	
SECTION 3: Composition	n/information on ingredients	s

· Description: Aqueous solution consisting of the following components with harmless additives.

· Non-dangerous Components:		
CAS: 7732-18-5 EINECS: 231-791-2	water	~95%
· Dangerous components:		
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	~4,5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	~0,2%
CAS: 36445-71-3 EINECS: 253-040-8	Disodium decyl(sulphonatophenoxy)benzenesulphonate � Eye Dam. 1, H318; 🕕 Skin Irrit. 2, H315	~0,19%
	(Contd	on page 2)

GB+ -

Printing date 29.03.2016

Version Nr: 1

Revision: 29.03.2016

Trade name Lens cleaning spray

(Contd. of page 1)

• 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	
Personal protection for the First Aider.	
Remove contaminated clothing.	
If unconscious, place in recovery position and seek medical advice.	
· After inhalation	
Take affected persons into the open air and position comfortably	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if	
symptoms persist.	
· After skin contact	
Remove contaminated clothing.	
Wash off with plenty of water.	
Or better	
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. If symptoms persist, consult Oculist.	
After swallowing	
Rinse out mouth and then drink (two glasses at the most) water.	
Do not induce vomiting.	
Consult doctor if feeling unwell.	
Turn a vomiting person on the side if lying on the back.	
If vomiting occurs, the head should be kept low.	
 4.2 Most important symptoms and effects, both acute and delayed 	
A description of symptoms is not present at the moment.	
· Information for doctor The toxicological properties of this material have not been fully investigated.	
· Danger	
Slightly irritation on eyes skin and mucous membrane.	
There are at present no indications to further acute dangers for the health.	
Further health dangers cannot be excluded however.	
• 4.3 Indication of any immediate medical attention and special treatment needed	
Elemental assistance.	
Decontamination.	
Treat symptomatically and supportively.	
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SECTION 5. Eirofighting macaura	-
SECTION 5: Firefighting measures	

SECTION 5: Firefighting measure

• 5.1 Extinguishing media
• Suitable extinguishing agents The product is not flammable. Use fire fighting measures that suit the environment.
• For safety reasons unsuitable extinguishing agents Water with a full water jet.
• 5.2 Special hazards arising from the substance or mixture Formation of toxic and corrosive gases during heating or in case of fire. Can be released in case of surrounding fire: Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx)
• 5.3 Advice for firefighters
• Protective equipment: Wear self-contained breathing apparatus.

(Contd. of page 2)

Safety data sheet according to 1907/2006/EC

Revision: 29.03.2016

Wear full protective suit. Additional information Collect contaminated fire fighting water separately. It must not enter drains. Damp down gases/fumes/haze with water spray jet. SECTION 6: Accidental release measures · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Use breathing protection against the effects of fumes/dust/aerosol. Ensure adequate ventilation Bring persons out of danger. · 6.2 Environmental precautions: Do not allow to enter sewing systems, water bodies, groundwater or soil. Inform respective authorities in case large quantities of the product reach water, sewage system or soil. · 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Clean up affected area. May be recycled or disposed of in appropriate containers Dispose of contaminated material as waste according to item 13. · 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 information on disposal. SECTION 7: Handling and storage · 7.1 Precautions for safe handling Keep containers tightly closed. Ensure good ventilation/exhaustion at the workplace. · Hygiene measures: Keep away from foodstuffs, beverages and feedingstuff. Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Do not eat, drink or smoke while working. · Information about protection against explosions and fires: The product is not flammable

No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers: Store in original container if possible. Prevent any penetration into the ground.
- Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with materials/products which can form dangerous chemical reactions. See point 10: stability and reactivity.
- · Further information about storage conditions: Store in a dry place. Store in a closed container.

(Contd. on page 4)

GB

Printing date 29.03.2016

Trade name Lens cleaning spray

Version Nr: 1



Printing date 29.03.2016 Version Nr: 1 Revision: 29.03.2016 Trade name Lens cleaning spray (Contd. of page 3) Protect from heat and direct sunlight. Store container in a well ventilated position. · Recommended storage temperature: >5 °C - <25 °C · 7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection · Additional information about design of technical systems: No further data; see item 7. · 8.1 Control parameters · Components with critical values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. 67-63-0 propan-2-ol WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm · DNELs 67-63-0 propan-2-ol Oral DNEL/long t.systemic 26 mg/kg bw/day (General population) (ECHA) DNEL/long t-systemic 888 mg/kg bw/day (Workers) (ECHA) Dermal 319 mg/kg bw/day (General population) (ECHA) Inhalative DNEL/long t.systemic 500 mg/m³ (Workers) (ECHA) 89 mg/m³ (General population) (ECHA) · PNECs 67-63-0 propan-2-ol Oral PNEC - Oral 160 mg/kg/food (oral) (ECHA) PNEC - Sediment 552 mg/kg (Marine water) (ECHA) 552 mg/kg (Freshwater) (ECHA) PNEC - STP 2251 mg/l (sewage treatment plant) (ECHA) PNEC - Aquatic 140,9 mg/l (Marine water) (ECHA) 140,9 mg/l (Freshwater) (ECHA) 140,9 mg/l (Intermittent releases) (ECHA) PNEC - Soil 28 mg/kg soil dw (soil) (ECHA) · Additional information: The lists that were valid during the compilation were used as basis. · 8.2 Exposure controls Personal protective equipment - General protective measures: The usual precautionary measures should be adhered to in handling the chemicals. · Breathing equipment: If used in closed systems or well-ventilated area breathing protection is not necessary. Protection of hands: Chemical-protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on page 5)

Printing date 29.03.2016

Version Nr: 1

Revision: 29.03.2016

Trade name Lens cleaning spray

Check protective gloves prior to each	(Contd. of page h use for their proper condition.				
Selection of the glove material on consideration of the penetration times, rates of diffusion and the					
degradation Preventive skin protection by use of skin-protecting agents is recommended. Material of gloves No material can be recommended. 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 a be checked prior to the application. ASK THE MANUFACTURER FOR SUITABLE MATERIAL. Penetration time of glove material					
			At the permeation time no data are p	present.	
			The exact break through time has to be found out by the manufacturer of the protective gloves and		
			has to be observed. Not suitable are gloves made of th	ne following materials:	
			Strong gloves		
Leather gloves					
Eye protection: Safety glasses reco	ommended during refilling.				
Body protection:					
Light weight protective clothing					
or Lab coat					
	od specifically for the working place, depending on concentration				
Protective clothing should be selected specifically for the working place, depending on concentration					
and quantity of the hazardous substa	ances handled. The resistance of the protective clothing to				
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Printing date 29.03.2016

Version Nr: 1

Revision: 29.03.2016

Trade name Lens cleaning spray

		(Contd. of page 5)
· Density · Vapour density	No data available Not determined.	
• Solubility in / Miscibility with	Not determined.	
Water:	Partly soluble	
· Partition coefficient (n-octano	l/water): No data available	
· Viscosity:		
dynamic:	No data available	
kinematic:	No data available	
 9.2 Other information 	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Conditions to be avoided:
- No decomposition if used and stored according to specifications.
- To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Can be released in case of surrounding fire: Carbon monoxide (CO) and carbon dioxide (CO₂) Nitrogen oxides (NOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

67-63-0 propan-2-ol

	07-03-0 propan-2-01			
	Oral	LD50	5840 mg/kg (rodent - rat) (OECD 401 (ECHA))	
	Dermal	LD50	16,4 ml/kg (rabbit) (OECD 402 (ECHA))	
	Inhalative	LC50/6h	> 10000 ppm (rodent - rat) (OECD 403 (ECHA))	
• Primary irritant effect: • Skin corrosion/irritation Results from bioassays are not available (irritation possible).				
• Serious eye damage/irritation Results from bioassays are not available (irritation possible).				
 Respiratory or skin sensitisation Results from bioassays are not available. 				
	· Additional toxicological information:			

With proper contact and use as directed the product after our experiences and the information present to us causes no effects injurious to health.

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

111-76-2 2-butoxyethanol

· Repeated dose toxicity

67-63-0 propan-2-ol

Inhalative NOAEC 5000 ppm (rodent - rat) (OECD 451 / ECHA)

(Contd. on page 7)

⁻ GB+



Page 7/9

Safety data sheet according to 1907/2006/EC

Revision: 29.03.2016

(Contd. of page 6)

Printing date 29.03.2016

Version Nr: 1

Trade name Lens cleaning spray

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Germ cell mutagenicity No data available • Carcinogenicity No data available

· Reproductive toxicity No data available

· STOT-single exposure No data available

· STOT-repeated exposure No data available

· Aspiration hazard No data available

SECTION 12: Ecological information		
12.1 Toxicity Aquatic toxicity:		
· acute:		
67-63-0 propan-2-ol		
EC50 / 24h (static)	9714 mg/l (DAPHNIA TOXICITY: (daphnia magna)) (ECHA)	
LC50 / 96h	9640 mg/l (FISH TOXICITY: (pimephales promelas)) (ECHA)	
other: toxicity threshold concentration (static)	16h: 1050 mg/l (BACTERIAL TOXICITY: (pseudomonas putida)) (DIN 38412, part 8 / ECHA)	
· chronic:		
67-63-0 propan-2-ol		
other: toxicity threshold concentration chron.	7d: 1800 mg/l (ALGEAL TOXICITY: (scenedesmus quadric.)) (ECHA)	
· Terrestrial toxicity:		
· acute:		
67-63-0 propan-2-ol		
LC50 Terrestrial acute 1d: 25,1 / 26,7 g/l in d female (ECHA))	liet (Arthropods / Drosophila melanogaster) (male /	
chronic: No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available Additional ecological information: AOX-indication: The product does not contribute to the AOX value of the waste water. General notes: Quantitative data on the ecological effect of this product are not available.		
At present there are no ecotoxicological assessments. Do not allow product to reach ground water, water bodies, sewage system or soil. 12.5 Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available.		

(Contd. on page 8)

Printing date 29.03.2016

Version Nr: 1

Revision: 29.03.2016

Trade name Lens cleaning spray

(Contd. of page 7)

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· European waste catalogue

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. In agreement with the waste code must be determined regional waste disposal authority or company.

· Uncleaned packagings:

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

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void
 14.3 Transport hazard class(es) 	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	of Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Other regulations, limitations and prohibitive regulations
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated
- Regulation (EC) No 850/2004 on persistent organic pollutants and amending Directive 79/117/ EEC

not regulated

- Substances of very high concern (SVHC) according to REACH, Article 57 This product contains no SVHC above the legal limit of concentration $\geq 0,1\%$ (w / w)
- · REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals (PIC procedure):

not regulated

(Contd. on page 9)





Page 9/9

Safety data sheet according to 1907/2006/EC

Printing date 29.03.2016

Version Nr: 1

Revision: 29.03.2016

Trade name Lens cleaning spray (Contd. of page 8) · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. SECTION 16: Other information These statements solely describe the safety demands of the product and base according to the best of our belief on our today's knowledge. They, however, do not represent any assurance towards properties of the product within the sense of liability, resp. guaranty regulations and thus are given without any obligation. · Relevant phrases H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. 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 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) Lit.: Literatur SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Sources Information of distributor. ECHA Information on Registered Substances. http://apps.echa.europa.eu/registered/registered-sub.aspx GB-