according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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## 1 Identification

#### Product identifier

- · Trade name: Lens Cleaning Solution
- · Product code: LC4000
- · Recommended use and restriction on use
- · Recommended use: Laboratory chemicals
- · Restrictions on use: No relevant information available.

 Details of the supplier of the Safety Data Sheet
 Manufacturer/Supplier: AquaPhoenix Scientific, Inc.
 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aguaphoenixsci.com

#### **Emergency telephone number:** ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

## 2 Hazard(s) identification

#### <sup>•</sup> Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

#### · Label elements

GHS label elements
 The product is classified and labeled according to the Globally Harmonized System (GHS).
 Hazard pictograms:



· Signal word: Warning · Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements: P264 Wash thoroughly after handling. Wear protective gloves and eye protection. P280 P302+P352 If on skin: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 P337+P313 If eye irritation persists: Get medical advice/attention. • Other hazards There are no other hazards not otherwise classified that have been identified.

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5-15%

## **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

#### · Components:

111-76-2 2-butoxyethanol

 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319
 Flam. Liq. 4, H227

#### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

#### <sup>•</sup> Description of first aid measures

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

#### · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

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

#### After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed:
- Irritating to eyes and skin.

Gastric or intestinal disorders when ingested.

- Danger: No relevant information available.
- · Indication of any immediate medical attention and special treatment needed:

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

## **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture Carbon monoxide, carbon dioxide.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

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Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

## **Environmental precautions**

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

# Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Send for recovery or disposal in suitable receptacles.

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

# <sup>.</sup> Handling

· Precautions for safe handling:

Prevent formation of aerosols.

Use only in well ventilated areas.

· Information about protection against explosions and fires: The product is not flammable.

# <sup>•</sup> Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: Store in a well-ventilated place. Keep cool.

• **Information about storage in one common storage facility:** Store away from oxidizers, strong acids, strong bases.

Store away from foodstuffs.

· Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

## <sup>•</sup> Control parameters

· Components w	rith limit values that require monitoring at the workplace:
111-76-2 2-but	oxyethanol
PEL (USA)	Long-term value: 240 mg/m³, 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m³, 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m³, 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm Skin
LMPE (Mexico)	Long-term value: 20 ppm
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		(Cont'd. of page
	A3, IBE	
<ul> <li>Ingredients with</li> </ul>	n biological limit values:	
111-76-2 2-buto	-	
BEI (USA) 200 r		
	um: urine : end of shift	
	meter: Butoxyacetic acid with hydrolysis	
Exposure con		
	ive and hygienic measures:	
	utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed.	
	ore breaks and at the end of work.	
Avoid contact wit	h the eyes and skin.	
	ntrols: Provide adequate ventilation.	
<ul> <li>Breathing equip</li> <li>Protection of hat</li> </ul>	oment: For large spills, respiratory protection may be advisable.	
· Protection of na	ands:	
Protectiv	ve gloves	
<ul> <li>Material of glov</li> </ul>	es	
Nitrile rubber, NE	BR	
Butyl rubber, BR		
Neoprene gloves Natural rubber, N		
	/ the components in the glove materials is possible.	
· Eye protection:		
Safety g	lasses	
	ational guidelines concerning the use of protective eyewear.	
	n: Protective work clothing I supervision of exposure into the environment	
No relevant infor		
	nent measures No relevant information available.	
9 Physical and	chemical properties	
· Information or	n basic physical and chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Characteristic	
· Odor threshold	Not determined.	

Not determined.

· pH-value:

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Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	>100 °C (>212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.01 g/cm³ (8.43 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	ter): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- <sup>•</sup> Possibility of hazardous reactions
- Reacts with strong acids and alkali.
- Reacts with strong oxidizing agents.
- · Conditions to avoid Excessive heat.
- · Incompatible materials Oxidizers, strong bases, strong acids
- · Hazardous decomposition products
- Under fire conditions only:

Carbon monoxide and carbon dioxide

# **11** Toxicological information

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		(Cont'd.	of pa
Informat	ion on to	oxicological effects	
Acute tox	i <b>city:</b> Bas	ed on available data, the classification criteria are not met.	
LD/LC50	values that	at are relevant for classification:	
		y Estimate)	
Oral	LD50	9867-29600 mg/kg (rat)	
	LD50	6673-40000 mg/kg (rat)	
Inhalative	LC50/4h	73.3-220 mg/l	
111-76-2	2-butoxye	ethanol	
Oral	LD50	1480 mg/kg (rat)	
Dermal	LD50	1001-2000 mg/kg (rat) (Estimated)	
Inhalative	LC50/4h	450 ppm (rat)	
Primary i			
		t to skin and mucous membranes.	
		s serious eye irritation. ed on available data, the classification criteria are not met.	
		I Agency for Research on Cancer):	
111-76-2			
•		icology Program):	
	<u> </u>	ents are listed.	
	•	tional Safety & Health Administration):	
	-	ents are listed.	
	route(s) o	of exposure:	
Ingestion. Inhalation			
Eye conta			
Skin conta	act.		
		te toxicity, irritation and corrosivity): Causes skin and eye irritation.	
		<b>(icity:</b> No relevant information available.	
		<b>nicity:</b> Based on available data, the classification criteria are not met. ased on available data, the classification criteria are not met.	
		<b>city:</b> Based on available data, the classification criteria are not met.	
		sure: Based on available data, the classification criteria are not met.	
		posure: Based on available data, the classification criteria are not met.	
Aspiratio	n hazard:	Based on available data, the classification criteria are not met.	
Ecologi	cal info	rmation	
Toxicity		o relevant information available.	

· Additional ecological information

## · General notes:

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(Cont'd. of page 6) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects No relevant information available.

## **13 Disposal considerations**

#### · Waste treatment methods

#### · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

## <sup>·</sup> Uncleaned packagings

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

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Transport hazard class(es)	
DOT, ADR/RID/ADN, IMDG, IATA	
Class	Not regulated.
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Environmental hazards	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)
 SARA
 Section 302 (extremely hazardous substances):

 None of the ingredients are listed.

# Section 313 (Specific toxic chemical listings):

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					(Cont'd. of	i pa
TSCA (Toxic Su	Ibstances Control	Act)				
All ingredients a	e listed or exempt.					
Proposition 65	(California)					
Chemicals know	wn to cause cancei					
None of the ingr	edients are listed.					
Chemicals know	wn to cause develo	pmental toxi	city for female	s:		_
None of the ingr	edients are listed.					
Chemicals know	wn to cause develo	pmental toxi	city for males:			
None of the ingr	edients are listed.					
Chemicals know	wn to cause develo	pmental toxi	city:			
None of the ingr	edients are listed.					
•	ental Protection Ag	jency):				
111-76-2 2-butc	xyethanol					
•	onal Agency for Re	search on Ca	ancer):			
111-76-2 2-butc	xyethanol					
Canadian Dom	estic Substances L	ist (DSL):				
All ingredients lis	ted on DSL or NDS					
Other inform	ation					

#### Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc.

1305 North Florida Avenue

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