Lens Cleaning Solution

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Lens Cleaning Solution
Part number	BBLCS
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.

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

Identified Use(s)	Lens Cleaning Solution
Uses Advised Against	None known.

1.3 Details of the supplier of the safety data sheet

Address of Supplier	Beeswift Limited West Wing, Delta House, Delta Point Greets Green Road, West Bromwich West Midlands United Kingdom B70 9PL
Telephone	+44 (0) 121 524 2323
Fax	+44 (0) 121 524 2325
E-Mail (competent person)	sales@beeswift.com

1.4 Emergency telephone number

Emergency Phone No.	+44 (0) 121 524 2323	08:00 – 17:30 Monday – Friday, GMT
Languages spoken	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3; H226

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	Lens Cleaning Solution
Contains:	Not applicable.
Hazard Pictogram(s)	
Signal Word(s)	Warning
Hazard Statement(s)	H226: Flammable liquid and vapour.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P280: Wear protective gloves/eye protection. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents in accordance with local, state or national legislation.
General Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand.

		P102: Keep out of reach of children. P103: Read label before use.
	Supplemental information	Not Applicable
2.3	**Other hazards**	None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances** - Not applicable

3.2 **Mixtures -** Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Ethanol	< 20	64-17-5	200-578-6	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Eye Irrit. 2; H319, SCL ≥50%

SECTION 4: FIRST AID MEASURES



4.1	**Description of first aid measures**	
	Self-protection of the first aider	No action should be taken involving personal risk. Use personal protective equipment as required. Avoid breathing vapours. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.
	Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.
	Skin Contact	Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
	Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.
	Ingestion	Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. Obtain medical attention if symptoms appear or if large quantities have been ingested.
4.2	**Most important symptoms and effects, both acute and delayed**	In cases of severe exposure, nausea/vomiting may develop.
4.3	**Indication of any immediate medical attention and special treatment needed**	Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1	**Extinguishing media**	
	Suitable Extinguishing media	As appropriate for surrounding fire. Extinguish preferably with dry chemical, alcohol foam or waterspray.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	**Special hazards arising from the substance or mixture**	Flammable. Combustion may cause toxic fumes. (Carbon monoxide, Carbon dioxide).
5.3	**Advice for fire-fighters**	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Caution - spillages may be slippery. Eliminate sources of ignition. Shut off leaks if without risk. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes.
6.2	**Environmental precautions**	Avoid release to the environment.
6.3	**Methods and material for containment and cleaning up**	Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.
6.4	**Reference to other sections**	See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin and eyes. Wear protective gloves/eye protection. Use explosion-proof equipment. Use non-sparking tools. Take precautionary measures against static discharge. This product should be kept away from naked flames and other sources of ignition. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
	Storage temperature	Ambient. Keep away from heat and direct sunlight.
	Storage life	Stable at ambient temperatures.
	Incompatible materials	Strong oxidising agents. Strong acids and alkali.
7.3	**Specific end use(s)**	Lens Cleaning Solution

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Ethanol	64-17-5	1000	1920	-	-	-

Source: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value Not established.

8.1.3 PNECs and DNELs Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls Provide adequate ventilation. Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit. Keep away from heat and sources of ignition.

8.2.2 Individual protection measures, such as personal protective equipment (PPE) Use personal protective equipment as required. Use good personal hygiene practices. Avoid contact with skin and eyes.

Eye/ face protection



Recommended: Use eye protection according to EN 166, designed to protect against liquid splashes.

Skin protection

Recommended: Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated gloves should be carefully rinsed with water before reuse.



Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection — Normally no personal respiratory protection is necessary.



Thermal hazards — Not applicable.

8.2.3 Environmental Exposure Controls — No special precautions are required for this product. Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear Liquid
Colour.	Colourless
Odour	Alcohol-like.
Odour Threshold (ppm)	Not established.
pH (Value)	Not established.
Melting Point (°C) / freezing pointFreezing Point (°C)	No data for the mixture as a whole. Estimated: -9°C (20% ethanol / 80% water)*
Boiling Point (°C) and boiling range	Not available.
Flash Point (°C)	No data for the mixture as a whole. Estimated: >36°C (20% ethanol / 80% water)*
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Explosive Limit Ranges	Not available.
Vapour Pressure (mm Hg)	Not available.
Vapour Density (Air=1)	Not available.
Relative Density	Not available.
Solubility(ies)	Soluble in water.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Viscosity (mPa. s)	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information — *According to the "Fire Protection Guide to Hazardous Materials", 13th Ed., page 325-57 (2002)

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	None anticipated. Stable under normal conditions.
10.4	**Conditions to avoid**	Keep away from heat and direct sunlight. Avoid storage in freezing conditions.
10.5	**Incompatible materials**	Strong oxidising agents. Strong acids and alkali.
10.6	**Hazardous decomposition product(s)**	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

	Acute toxicity	
	Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Skin Contact	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Inhalation	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 >20 mg/l (Vapours)
	Skin corrosion/irritation	Based on available data, the classification criteria are not met.
	Serious eye damage/irritation	Based on available data, the classification criteria are not met.
	Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	Carcinogenicity	Based on available data, the classification criteria are not met.
	Reproductive toxicity	Based on available data, the classification criteria are not met.
	STOT - single exposure	Based on available data, the classification criteria are not met.
	STOT - repeated exposure	Based on available data, the classification criteria are not met.
	Aspiration hazard	Based on available data, the classification criteria are not met.
11.2	**Other information**	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Based on available data, the classification criteria are not met. Ethanol has low toxicity to aquatic organisms. Estimated LC50 (Mixture): >100 mg/l.
12.2	**Persistence and degradability**	Not persistent. Part of the components are biodegradable. Ethanol - Readily biodegradable, non-persistent.
12.3	**Bioaccumulative potential**	The product has low potential for bioaccumulation. Ethanol Kow - 0.35
12.4	**Mobility in soil**	The product is predicted to have high mobility in soil. Soluble in water.
12.5	**Results of PBT and VPVB assessment**	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	**Other adverse effects**	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	**IMDG**	**IATA/ICAO**
14.1	**UN number**	1993	1993	1993
14.2	**UN proper shipping name**	FLAMMABLE LIQUID, N.O.S (Ethanol)	FLAMMABLE LIQUID, N.O.S (Ethanol)	FLAMMABLE LIQUID, N.O.S (Ethanol)
14.3	**Transport hazard class(es)**	3	3	3
14.4	**Packing group**	III	III	III
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	No information available.	No information available.	No information available.
14.8	**Additional Information**	Limited Quantities: 5L Excepted Quantities: E1		

SECTION 15: REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	
15.1.1	**EU regulations**	
	Authorisations and/or Restrictions On Use	None known.

15.1.2	**National regulations**	None known.
15.2	**Chemical Safety Assessment**	Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 16.
Updated version and date. Please review SDS with care. See below -

The following sections have updates indicated by:

References:
Existing ECHA registration(s) for Ethanol (CAS No. 64-17-5) and the "Fire Protection Guide to Hazardous Materials", 13th Ed., page 325-57 (2002).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	**Classification Procedure**
Flam. Liq. 3; H226	Expert judgement – Estimated Flash point. Flash point for 20% ethanol / 80% water mixture: 36°C, according to the "Fire Protection Guide to Hazardous Materials", 13th Ed., page 325-57 (2002).

LEGEND

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EC	European Community
ECHA	European Chemicals Agency
EU	European Union
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific Concentration Limit
STEL	Short Term Exposure Limit
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers
Beeswift Limited has made all reasonable efforts to ensure that all information contained in this publication or as otherwise supplied to Users is accurate and such information is given in good faith. It is for Users to satisfy themselves as to the suitability of the product for their own particular purpose. Beeswift Limited gives no representation or warranty as to the fitness of the product for any particular purpose and all implied warranties, representations or conditions (statutory or otherwise) in relation to the supply are excluded to the fullest extent permitted by law. Beeswift Limited accepts no liability for any loss or damage, whether direct or indirect, save in respect of death or personal injury to the extent it is legally liable, resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)
No information available.