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

1.1. Product identifier

Product form : Mixture
Product name : Lens Cleaner
Product code : 002992-001

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

1.2.1. Relevant identified uses

Intended for professional use
Use of the substance/mixture : Lens cleaning solution.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Aquarius Instruments Inc.
15170 Fairlawn Shores Trail SE
Prior Lake, MN 55372
+011 952 447 3692

1.4. Emergency telephone number

Emergency number : +011 952 447 3692
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

CLP Signal word : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation
Precautionary statements (CLP) : P102 - Keep out of reach of children
P264 - Wash hands thoroughly after handling
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell

		P101 - If medical advice is needed, have product container or label at hand
Child-resistant fastening	:	No
Tactile warning	:	No

SECTION 3. Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% by Weight	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isopropyl alcohol	CAS Number: 67-63-0 EC Number: 231-598-3 (EINECS / ELINCS-no) 200-661-7 (REACH-no) 01-2119457558-25	<1% Trade Secret*	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Sodium chloride	CAS Number: 7647-14-5 EC Number: 231-598-3	<0.1% Trade Secret*	Eye Irrit. 2, H319
Sodium lauryl ether sulfate	CAS Number: 3088-31-1 EC Number: 221-416-0 REACH registration number: 01-2119488639-16-XXXX	<0.1% Trade Secret*	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Xi; R36/38.
Laurylamidopropyl betaine	CAS Number: 4292-10-8 (EC Number) 224-292-6 (EG annex nr) / (REACH-no) /	<0.1% Trade Secret*	Eye Irrit. 2, H319

*The specific chemical exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4. First aid measures

4.1. Description of first aid measure

First-aid measures general	:	Does not require any particular or specific measures. Handle in accordance with the usual hygiene rules.
First-aid measures after inhalation	:	Move to fresh air. Obtain medical attention if necessary.
First-aid measures after skin contact	:	Rinse skin with plenty of water or shower. If skin irritation persists, take medical advice.
First-aid measures after eye contact	:	Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. If irritation persists, consult a doctor.

First-aid measures after ingestion	:	Drink plenty of water. Do not induce vomiting. Call a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	:	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	:	May cause respiratory irritation.
Symptoms/injuries after skin contact	:	Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact	:	Irritating to eyes.:
Symptoms/injuries after ingestion	:	Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Foam, powder, carbon dioxide (CO_2), water spray.
Unsuitable extinguishing media	:	None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Noncombustible.
Explosion hazard	:	No dangerous reactions known.

5.3. Advice for firefighters

Precautionary measures fire	:	Wear suitable respiratory equipment in case of insufficient ventilation.
Firefighting instructions	:	No special precautions required.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	:	No special required clothing.
Emergency procedures	:	Clean spills promptly.

6.1.2. For emergency responders

Protective equipment	:	No special required clothing.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Not in groundwater, surface water or sewerage.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Absorb spill with appropriate sand, clay or other inert sorbent material, then place in appropriate waste container.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	No specific measures are necessary.
Hygiene measures	:	Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Protect from moisture. Keep out of reach of children.
Storage area	:	Store tightly closed in a dry and cool place.

7.3. Specific end use(s)

Lens cleaning solution

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Materials for protective clothing	:	No special required clothing
Hand protection	:	In case of repeated or prolonged contact wear gloves. Hand protection: The glove material has to be impermeable and resistant to the product/the substance/the preparation. When choosing the glove material, take account of the permeation times, the degree of permeability and the breakdown rate. Glove material: Choosing a suitable glove is not just about the material, other quality features also come into play and these differ from manufacturer to manufacturer. Given the product is composed from several substances, the durability of the glove

	material cannot be calculated in advance and therefore it has to be tested before use. Always seek advice from the manufacturer of the gloves. Hygiene: Contaminated gloves should be replaced. Personal hygiene is an essential condition to ensure proper care of the hands. Gloves should only be worn when hands are clean. Hands should be thoroughly washed and dried after having worn gloves. Permeation time of the glove material: The manufacturer of the glove can inform you of the exact permeation time; take account of this. According to DIN EN 374, when there is hand contact with the product and that contact was for a period of 15 minutes, then the gloves of the following material offer sufficient protection. Butyl rubber (thickness > 0.5 mm) Nitrile rubber (thickness > 0.35 mm) Neoprene (Polychloroprene) rubber (thickness > 0.4 mm) Natural rubber (thickness > 0.5 mm) For continuous contact, we recommend gloves with a breakthrough time of at least 240 minutes, where preference lies with a breakthrough time of more than 480 minutes. Protection against splashes: The same gloves used for long term contact should be worn for short term contact or protection against splashes. A shorter breakthrough time can be acceptable when it is just used for a timely replacement.
Eye protection	In case of repeated or prolonged contact use safety glasses
Skin and body protection	Not necessary
Respiratory protection	Not necessary

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	:	Liquid
Appearance	:	Colorless
Color	:	Clear
Odor	:	Alcohol-like
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point:	:	Approximately 0°C
Freezing point	:	Approximately 0°C
Boiling Point:	:	Approximately 100°C @ 760 mmHg
Flash point	:	Not flammable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, liquid, gas)	:	Not flammable
Vapor pressure	:	No data available

Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1 (water=1)
Solubility	:	Water: complete
Log Poct/wat	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.1. Other information

No additional information available

SECTION 10. Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Do not mix with other products.

10.5. Incompatible material

No additional information available.

10.6. Hazardous decomposition products

None.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Based on available data, the classification criteria are not met

Isopropyl alcohol (CAS 67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat	16000 ppm/8H
Sodium Chloride (CAS 7647-14-5)	
LD50 oral rat	3000 mg/kg
LD50 dermal rabbit	>10000 mg/kg
LC50 inhalation (dust) rat	>42000 mg/m3
Sodium lauryl ether sulfate (CAS 3088-31-1)	
LD/LC50 values relevant for classification	None
Laurylamidopropyl betaine (CAS 4292-10-8)	
LD50 oral rat	300-2000 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat	16000 ppm/8H

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Other information	:	Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12. Ecological information

12.1. Toxicity

Ecology - general : The surfactants in this product comply with the biodegradability criteria as laid down in Regulation (EC) no.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Isopropyl Alcohol (CAS 67-63-0)	
LC50 (Pimephales promelas)	96 hour: 10,000 mg/L
LC50 (Daphnia magna)	24 hour: >10,000 mg/L
NOEC: (Daphnia magna)	3.37 µmol/L (Growth rate)

Sodium Chloride (CAS 7647-14-5)	
LC50 (Pimephales promelas)	96 hour: 7,650 mg/L
EC50 (Daphnia magna)	48 hour: 1,000 mg/L
Diethylene glycol monolauryl ether sodium sulfate (CAS 3088-31-1)	
No additional information available	
Laurylamidopropyl betaine (CAS 4292-10-8)	
No additional information available	

12.2. Persistence and degradability

Persistence and degradability : Not established.

12.3. Bioaccumulative potential

Additional information : Not established.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects

Additional information : No other effects known. Avoid release to the environment

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste disposal recommendations : Dispose of contents/container to local regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14. Transportation information

In accordance with ADR / RID / IMDG / IATA / AND

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA)	:	Not applicable
Proper Shipping Name (ADN)	:	Not applicable
Proper Shipping Name (RID)	:	Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	Not applicable

IMDG

Transport hazard class(es) (IMDG)	:	Not applicable

IATA

Transport hazard class(es) (IATA)	:	Not applicable

AND

Transport hazard class(es) (ADN)	:	Not applicable

RID

Transport hazard class(es) (RID)	:	Not applicable

14.4. Packing group

Packing group (ADR)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Packing group (IATA)	:	Not applicable
Packing group (ADN)	:	Not applicable
Packing group (RID)	:	Not applicable

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16. Other information

Training advice	:	Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	:	None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidizing Solids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.