

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200) - GHS Classification

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier	
GHS Product Identifier	Not applicable.
Chemical Name	Not applicable.
Trade name	Ultra Clarity <sup>®</sup> Lens Cleaner
CAS No.	Mixture
Relevant identified uses of the substance or mixture and	uses advised against
Identified use(s)	Optics cleaner solution
Uses advised against	None.
Details of the supplier of the safety data sheet	
Company Identification	Nanofilm Ltd
Telephone	+1 (800) 883-6266
Fax	+1 (216) 447-1137
E-Mail (competent person)	info@nanofilmtechnology.com
Emergency telephone number	
Emergency Phone No.	CHEMTREC 24 hr. (800) 424-9300 or
	+1 (703) 527-3887 (Collect call accepted)
SECTION 2: HAZARDS IDENTIFICATION	
Classification of the substance or mixture	
OSHA HCS (29 CFR 1910.1200) - GHS Classification	Not classified as dangerous for supply/use.
Label elements	
Hazard Symbol	None
Other hazards	None

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### Mixtures

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Isopropyl Alcohol	4-6	67-63-0	Flammable liquid. Irritating to eyes. May be harmful if swallowed.
Water	>94	7732-18-5	None anticipated
Other*			

None

\*Ingredients present at <0.1%

**Additional Information** 

Additional Information - None

### SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	If symptoms occur, obtain medical attention.
Skin Contact	Wash skin with water. If symptoms occur, obtain medical attention.



Eye Contact		nce has got into the eyes, wash out with water. If symptoms otain medical attention.
Ingestion		e glass of water. Do not induce vomiting. If symptoms occur edical attention.
Most important symptoms and effects, both acute and delayed	May cau	se eye irritation.
Indication of the immediate medical attention and special treatment needed	None	
SECTION 5: FIRE-FIGHTING MEASURES		
Extinguishing media		
Suitable Extinguishing Media Unsuitable Extinguishing Media		Non-combustible None anticipated.
Special hazards arising from the substance or mixtu	re	Non-combustible
Advice for fire-fighters		As appropriate for surrounding fire. >90% Water - Will not support combustion
SECTION 6: ACCIDENTAL RELEASE MEAS		
Personal precautions, protective equipment and eme procedures		Not normally required.
Personal precautions, protective equipment and eme		Not normally required. Not normally required.
Personal precautions, protective equipment and eme procedures	ergency	
Personal precautions, protective equipment and eme procedures Environmental precautions	ergency	Not normally required. Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal
Personal precautions, protective equipment and eme procedures Environmental precautions Methods and material for containment and cleaning o	ergency	Not normally required. Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. Provide adequate ventilation.
Personal precautions, protective equipment and emp procedures Environmental precautions Methods and material for containment and cleaning Reference to other sections	ergency	Not normally required. Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. Provide adequate ventilation. None
Personal precautions, protective equipment and emo procedures Environmental precautions Methods and material for containment and cleaning Reference to other sections Additional Information	ergency	Not normally required. Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. Provide adequate ventilation. None

Store at room temperature. None

Specific end use(s)

Storage Temperature

Incompatible materials

Optics cleaner solution

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Occupational Exposure Limits**

		LTEL (8 hr TWA ppm)		STEL (ppm)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
Isopropyl alcohol	67-63-0	400	200		400	

- LTEL: Long Term Exposure Limit; - STEL: Short Term Exposure Limit

#### **Recommended monitoring method**

NIOSH 1400



Exposure controls

Appropriate engineering controls

Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Not required under normal consumer use.

Industrial use: Wear suitable gloves if prolonged skin

Not required under normal consumer use.

Not required under normal consumer use.

Industrial use: Safety spectacles

Industrial use: In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Environmental Exposure Controls

Not normally required.

Not normally required.

contact is likely.

Not normally required.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Greenish. Blue.
Odour	Not available.
Odour Threshold (ppm)	Not available.
pH (Value)	7
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not determined.
Flash Point (°C)	51 (124 °F) Pensky-Martens closed cup
	>90% Water - Will not support combustion
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Explosive limit ranges	Not available.
Vapour Pressure (Pascal)	Not available.
Vapour Density (Air=1)	Not available.
Density (g/ml)	Not available.
Specific Gravity	0.95 @ 22°C
Solubility (Water)	Soluble
Solubility (Other)	Not known
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (mPa·s) @ 22°C	<10
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Other information	Not available.

# SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Stable under normal conditions. Stable.



Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous Decomposition Product(s)

None anticipated. Heat. None Carbon monoxide

Inhalation: LC50 > 1000 ppm (rat) 6 hour(s) Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s)

Irritating to eyes.

None known.

It is not a skin sensitizer.

NOAEL = 5,000 ppm (Inhalation)

### SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

#### Substances Not applicable Mixtures Acute toxicity Not available. Irritation Not available. Corrosivity Not available. Sensitisation Not available. Repeated dose toxicity Not available. Carcinogenicity IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen. Not available. Mutagenicity Toxicity for reproduction Not available. Substances in preparations / mixtures Isopropyl Alcohol (CAS No.67-63-0) Acute toxicity Oral: LD50 = 5.84 g/kg (rat)

Irritant Sensitisation Repeated dose toxicity Other information

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Substances in preparations / mixtures

Isopropyl Alcohol (CAS No.67-63-0)

Biodegradability	Biodegradable
Bioaccumulative potential	The product has no potential for bioaccumulation.
Acute toxicity	LC50(96 hour): 10,000 mg/l (Fathead minnow ( <i>Pimephales promelas</i> )) LC50 24hour(s): >10,000 mg/l <i>(Daphnia magna)</i>
Long Term Toxicity	NOEC: 3.37 µmol/l (Daphnia magna) (Growth rate)
Persistence and degradability	The organic part of the product is biodegradable.
Bioaccumulative potential	The product has no potential for bioaccumulation.
Mobility in soil	The product has high mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

# SECTION 13: DISPOSAL CONSIDERATIONS Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**Additional Information** 

None known.





### **SECTION 14: TRANSPORT INFORMATION**

In accordance with: 49CFR 173.120(a)(5); ADR Annex A 2.2.3.1.1 Note 1; ICAO 2.3.1.3(c); IATA DGR 3.3.1.3(c); and IMO 2.3.1.3.3

DOT (DEPARTMENT OF TRANSPORTATION)	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Hazard label(s)	
Environmental hazards	
Special precautions for user	
Land transport (ADR/RID)	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Hazard label(s)	
Environmental hazards	
Special precautions for user	
Sea transport (IMDG)	Not classified as dangerous for transport.
UN number	5
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Marine Pollutant	
Special precautions for user	
Air transport (ICAO/IATA)	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Environmental hazards	
Special precautions for user	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
SECTION 15: REGULATORY INFORMATIO	N
Safety, health and environmental regulations/legisla	ation specific for the substance or mixture:
TSCA (Toxic Substance Control Act) - Inventory Stat	us: All components listed or polymer exempt.
RCRA Hazardous Waste Number (40 CFR 261.33): N	lone

US RCRA Hazard Class: None

SARA 311/312 - Hazard Categories: None ☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute)

Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372): None SARA 302 - Extremely Hazardous Substances: None



## **SECTION 16: OTHER INFORMATION**

#### **Additional Information**

None

The following sections contain revisions or new statements: 2

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