

# MATERIAL SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

3.3 Additional Information - None

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

<b>1.1 Product identifier</b>		
GHS Product Identifier		Not applicable.
Chemical Name		Not applicable.
Trade name		Ultra Clarity <sup>®</sup> Lens Cleaner Towelette
CAS No.		Mixture
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>		
Identified use(s)		Optics cleaner solution
Uses advised against		None.
<b>1.3 Details of the supplier of the safety data sheet</b>		
Company Identification		Nanofilm Ltd
Telephone		+1 (800) 883-6266
Fax		+1 (216) 447-1137
E-Mail (competent person)		<a href="mailto:info@nanofilmtechnology.com">info@nanofilmtechnology.com</a>
<b>1.4 Emergency telephone number</b>		
Emergency Phone No.		CHEMTREC 24 hr. +1 (703) 527-3887 (Collect call accepted)

## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>		
- OSHA HCS (29 CFR 1910.1200)		Not classified as dangerous for supply/use.
<b>2.2 Label elements for Product as supplied:</b>		
Hazard Symbol		None
<b>2.3 Other hazards</b>		Not classified as PBT or vPvB.
<b>2.4 Additional Information</b>		May be flammable. May cause eye irritation.



NFPA Rating

<b>HEALTH</b>	0
<b>FLAMMABILITY</b>	1
<b>PHYSICAL HAZARD</b>	0
Personal Protection:	

HMIS (Hazardous Material Information System)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Isopropyl Alcohol	25.1	67-63-0	Flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

## SECTION 4: FIRST AID MEASURES



<b>4.1 Description of first aid measures</b>		
Inhalation		Unlikely to be required but if necessary treat symptomatically.
Skin Contact		Unlikely to be required but if necessary treat symptomatically.
Eye Contact		If substance has got into the eyes, wash out with water. If symptoms occur obtain medical attention.
Ingestion		Unlikely to be required but if necessary treat symptomatically.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>		None
<b>4.3 Indication of the immediate medical attention and special treatment needed</b>		None

## SECTION 5: FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing media</b>		
-Suitable Extinguishing Media		Extinguish with water spray, foam or dry chemical.
-Unsuitable Extinguishing Media		None anticipated.
<b>5.2 Special hazards arising from the substance or mixture</b>		None anticipated
<b>5.3 Advice for fire-fighters</b>		As appropriate for surrounding fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>		Not normally required.
<b>6.2 Environmental Precautions</b>		Not normally required.
<b>6.3 Methods and material for containment and cleaning up</b>		Transfer to a container for disposal or recovery.
<b>6.4 Reference to other sections</b>		None
<b>6.5 Additional Information</b>		None.

## SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>		None
<b>7.2 Conditions for safe storage, including any incompatibilities</b>		
-Storage Temperature		Store at room temperature.
-Incompatible materials		Strong oxidizing agents.

7.3 Specific end use(s) Optics cleaner 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)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Isopropyl Alcohol	67-63-0	400	200	500	400	----

8.1.2 Recommended monitoring method NIOSH 1400

### 8.2 Exposure controls

8.2.1 Appropriate engineering controls Not normally required.

#### 8.2.2 Personal protection equipment

Eye/face protection

Not required under normal consumer use  
Industrial use: Safety spectacles



Skin protection (Hand protection/ Other)

Not required under normal consumer use  
Industrial use: Wear suitable gloves if prolonged skin contact is likely



Respiratory protection

Not required under normal consumer use  
Industrial use: In case of inadequate ventilation wear respiratory protection.



Thermal hazards

Not normally required.

8.2.3 Environmental Exposure Controls Not normally required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Premoistened Cloth / Towelette
Color	White
Odor	Not available.
Odor Threshold (ppm)	Not available.
pH (Value)	7.4
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not determined.
Flash Point (°C)	26.7° C (80° F) [Closed cup]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	Not applicable.
Vapor Pressure (Pascal)	Not known
Vapor Density (Air=1)	Not known
Specific Gravity (Liquid)	0.96
Density (g/ml)	Not available.

Solubility (Water)  
Solubility (Other)  
Partition Coefficient (n-Octanol/water)  
Auto Ignition Temperature (°C)  
Decomposition Temperature (°C)  
Kinematic Viscosity (cSt) @ 40°C  
Explosive properties  
Oxidizing properties

Not available.  
Not available.  
Not available.  
Not available.  
Not available.  
Not available.  
Not explosive.  
Not oxidizing.

9.2 Other information Not available.

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	None anticipated.
10.4 Conditions to avoid	Heat.
10.5 Incompatible materials	None.
10.6 Hazardous Decomposition Product(s)	Carbon monoxide

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

11.1.1 Substances  
Not applicable

11.1.2 Mixtures  
Acute toxicity Not available.  
Irritation Not available.  
Corrosivity Not available.  
Sensitisation Not available.  
Repeated dose toxicity Not available.  
Carcinogenicity Not available.  
Mutagenicity Not available.  
Toxicity for reproduction Not available.

### 11.1.3 Substances in preparations / mixtures

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

#### Acute toxicity

Oral: LD50 = 5.84 g/kg (rat)  
Inhalation: LC50 > 10,000 ppm (rat) 6 hour(s)  
Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s)

#### Irritation

Irritating to eyes.

#### Sensitisation

It is not a skin sensitizer.

#### Repeated dose toxicity

NOAEL = 5,000 ppm (Inhalation)

11.2 Other information None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 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 (Pimephales promelas))

-LC50 24hour(s): >10,000 mg/l (*Daphnia magna*)

**Long Term Toxicity**

-NOEC: 3.37 µmol/l (*Daphnia magna*) (Growth rate)

-NOEC: 3.37 µmol/l (*Daphnia magna*) (Growth rate)

12.2	<b>Persistence and degradability</b>	Not available
12.3	<b>Bioaccumulative potential</b>	Not available
12.4	<b>Mobility in soil</b>	No data
12.5	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

13.1	<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
13.2	<b>Additional Information</b>	None known.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with: DOT 49 CFR 172.102 Special Provision 47; ADR 3.3.1 Special Provision 216; ICAO Special Provision:A46; IATA DGR Special Provision:A46; and IMDG Special Provision 216

14.1	<b>DOT (DEPARTMENT OF TRANSPORTATION)</b> UN number Proper Shipping Name Transport hazard class(es) Packing Group Hazard label(s) Environmental hazards Special precautions for user	Not classified as dangerous for transport.
14.2	<b>Land transport (ADR/RID)</b> UN number Proper Shipping Name Transport hazard class(es) Packing Group Hazard label(s) Environmental hazards Special precautions for user	Not classified as dangerous for transport.
14.3	<b>Sea transport (IMDG)</b> UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant Special precautions for user	Not classified as dangerous for transport.
14.4	<b>Air transport (ICAO/IATA)</b> UN number Proper Shipping Name Transport hazard class(es) Packing Group Environmental hazards Special precautions for user	Not classified as dangerous for transport.
14.5	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

**SECTION 15: REGULATORY INFORMATION**

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

**TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.**

**US RCRA No.: None**

**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

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