

# Apollo Optik Lens Cleaner

## SAFETY DATA SHEET

According to Directive 67/548/EEC & Directive 1999/45/EC

### 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		Apollo Optik Lens Cleaner
CAS No.		Mixture
EINECS 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 Product Distributor</b>		
Company Identification		Apollo Optik
Telephone		+49 (9122) 831-0
Fax		+49 (9122) 831-359
<b>1.4 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>
Only Representative		Experien Chemical Services (Europe) Limited PO Box 170 Thirsk YO7 9AN UK
Telephone		+44 7791 573385 (UK 9am to 5pm)
<b>1.5 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>		
Directive 67/548/EEC & Directive 1999/45/EC		Not classified as dangerous for supply/use.
<b>2.2 Label elements</b>		
Hazard Symbol		None
Risk Phrases		None
Safety Phrases		None
<b>2.3 Other hazards</b>		Not classified as PBT or vPvB.
<b>2.4 Additional Information</b>		None

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Isopropyl Alcohol	4-6	200-661-7	Not applicable^	F; R11 Xi; R36 R67
Water	>94	231-791-2	Not applicable^	Not classified
Other*	----	----	Not applicable^	Not applicable

^ Not yet subject to registration or is exempt.

\* Ingredients present at <0.1%

3.3 Additional Information - For full text of R phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 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	If substance has got into the eyes, wash out with water. If symptoms occur obtain medical attention.
Ingestion	Drink one glass of water. Do not induce vomiting. If symptoms occur obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed None

4.3 Indication of the immediate medical attention and special treatment needed None

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

-Suitable Extinguishing Media	Non-combustible
-Unsuitable Extinguishing Media	None anticipated.

5.2 Special hazards arising from the substance or mixture None

5.3 Advice for fire-fighters As appropriate for surrounding fire.  
90% Water - Will not support combustion

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Not normally required.

6.2 Environmental precautions Not normally required.

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<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>	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.
<b>6.4</b>	<b>Reference to other sections</b>	None
<b>6.5</b>	<b>Additional Information</b>	None.

## SECTION 7: HANDLING AND STORAGE

<b>7.1</b>	<b>Precautions for safe handling</b>	Wash affected skin with plenty of water. Remove contaminated clothing and wash clothing before reuse. Provide adequate ventilation. Avoid contact with skin, eyes or clothing.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	
	-Storage Temperature	Store at room temperature.
	-Incompatible materials	None
<b>7.3</b>	<b>Specific end use(s)</b>	Optics cleaner solution

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE.	EC No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Isopropyl alcohol ^	200-661-7	400	999	400	1250	----

^ OEL (United Kingdom); \* IOELV: Indicative Occupational Exposure Limit Value

Biological limit value					
Limit value type (country of origin)	SUBSTANCE.	EC No.	Biological limit value	Note:	
United States	Isopropyl alcohol	200-661-7	40 mg/L	Acetone in urine; End of Shift	

**8.1.2 Recommended monitoring method** UK HSE MDHS 88

### 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.

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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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 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.

### 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.

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Carcinogenicity	Not available.
Mutagenicity	Not available.
Toxicity for reproduction	Not available.

## 11.1.3 Substances in preparations / mixtures

Isopropyl Alcohol (EC No. 200-661-7)

### Acute toxicity

- Oral: LD50 = 5.84 g/kg (rat)
- Inhalation: LC50 > 1000 ppm (rat) 6 hour(s)
- Dermal: LD50 = 16.4 ml/kg (rabbit) 24 hour(s)

### Irritant

- Irritating to eyes.

### Sensitisation

- It is not a skin sensitizer.

### Repeated dose toxicity

- NOAEL = 5,000 ppm (Inhalation)

11.2 Other information	None known.
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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Substances in preparations / mixtures

Isopropyl Alcohol (EC No. 200-661-7)

#### 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)

12.2 Persistence and degradability	The organic part of the product is biodegradable.
12.3 Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4 Mobility in soil	The product has high mobility in soil.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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.
13.2 Additional Information	None known.

## SECTION 14: TRANSPORT INFORMATION

**In accordance with:** 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

14.1 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	

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

## SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:</b>	
<b>15.1.1 EU regulations</b>	<b>Listed</b>
Regulation (EC) 2037/2000 - Dangerous to the ozone layer.	No.
Regulation (EC) 850/2004 - Persistent Organic Pollutants	No.
Regulation (EC) 689/2008 - Export/Import of Dangerous Chemicals	No.
Regulation (EC) 1907/2006 - REACH Authorisations and/or restrictions on use	No.
<b>15.1.2 National regulations</b>	Not established.
<b>15.2 Chemical Safety Assessment</b>	Not applicable

## SECTION 16: OTHER INFORMATION

### Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

### Label elements

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

GHS Product Identifier	None
Hazard pictogram(s)	None
Signal word(s)	None
Hazard statement(s)	None
Precautionary statement(s)	None

**Additional Information** None

The following sections contain revisions or new statements: 9.1.

### Risk Phrases and Safety Phrases:

- R11: Highly flammable.
- R36: Irritating to eyes.
- R67: Vapours may cause drowsiness and dizziness.

**Hazard statement(s) and Precautionary statement(s):** None.

**Training advice:** None.

**Additional Information:** None.

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