



Ophir Optronics Ltd.  
Science Based Industries Park Har-Hotzvim  
P.O. Box 45021 Jerusalem 91450, ISRAEL  
Tel: 972-2-5484444 Fax: 972-2-5822338  
www.ophiropt.com  
CO2@ophiropt.com

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY :

Product name: EZ Clean – Wipes for lens cleaning

Supplier: Ophir Optronics Ltd.  
6 Hartom St. Har-Hotzvim  
Jerusalem 91450, Israel  
Fax: 972-2-5822338  
Email: co2optics@ophiropt.com

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Characteristics:

Non-woven fabric wipe saturated with **Ethanol** solution.

\* This product does not contain known carcinogenic ingredients.

\*\* This product does not contain chlorinated hydrocarbons and it is not harmful to the ozone layer.

### 3. HAZARDS IDENTIFICATION

Table No.1: Composition Information of hazards materials

Chemical name of ingredient	Cas #	EC NO.	WW %	Hazard indication classification	Safety indication classification
Ethanol Absolute	64-17-5	200-578-6	A	R11, R20, R21, R22, R36, R37, R38, R40.	S7, S16, S24, S25, S36, S37, S39, S45.

\*Highly flammable

Category:

- A- > 50%
- B- 10-50%
- C- 9.9-1%
- D- 0.1-0.9%
- E- <0.1%



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### 3.1 Health Effects

**Swallowing:** May be harmful if swallowed. May cause depression of central nervous system, characterized by excitement, followed by headache, nausea, drowsiness, fatigue or loss of coordination. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

**Skin contact:** Causes moderate skin irritation. May cause cyanosis of the extremities. Normal care and personal hygiene should prevent skin effects.

**Inhalation:** May cause irritation to the respiratory track. Inhalation of high concentration may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

**Eye contact:** May cause severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage. Causes moderate skin irritation. May cause cyanosis of the extremities.

## 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting. Gently lift eye lids and wash continuously with water.



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**Skin contact:** Get medical aid. Wash clothing before reuse. Flush skin with plenty of soap and water.

**Inhalation:** If irritation occurs, stop using the wipe. Remove person to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation. If needed, get medical aid.

**Eye contact:** Flush eyes with water and continue washing for several minutes. Remove contact lenses if worn.

**Notes to Physician:** Treat symptomatically and supportively. Person with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous system diseases may be in increased risk from exposure to this substance.

## 5. FIRE-FIGHTING MEASURES

This product classified as highly flammable.

Suitable extinguishing media: All

Extinguishing media who must not be used for safety reasons: None

## 6. ACCIDENTAL RELEASE MEASURES

Soak up with inert absorbent material.

Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 HANDLING:

Avoid contact with eyes.

Use with adequate ventilation.



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## 7.2 STORAGE:

Store in a cool shaded and ventilated area, keep container sealed. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep away from incompatible materials. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

**Engineering measures:** No specific engineering measures are necessary.

**Respiratory protection:** Normal room ventilation is adequate.

**Eye:** None normally required. Avoid direct eye contact.

**Skin:** None normally required. Avoid prolonged skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

**Appearance:** A fabric wipe saturated with **Ethanol** solution.

### Characteristics of the solution:

Color:	Clear Colorless Liquid
Form:	Liquid
Odor:	Alcohol.
Density (20°C):	0.79 gr/ml
Boiling point:	78 <sup>0</sup> <sub>c</sub>
Freezing point:	-141 <sup>0</sup> <sub>c</sub>
Flash point:	16.6 <sup>0</sup> <sub>c</sub>
Water solubility:	Miscible
Solubility in ethanol:	Soluble in all proportions.



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## 10. STABILITY AND REACTIVITY.

**Stability:** Stable under normal temperatures and pressures.

**Conditions to avoid:** Incompatible materials, ignition sources, excess heat, oxidizers.

**Incompatible with other materials:** Strong oxidizing agents like acids, alkali metals, ammonia, hydrazine, peroxides and others.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:** Ethanol –ACGIH:A4 Not classifiable as a human carcinogen.

## 12. ECOLOGICAL INFORMATION.

**Ecotoxicity:** When released into water it will be volatilize and biodegrade. It would not be expected to absorb to sediment or bioconcentrate in fish.

## 13. DISPOSAL CONSIDERATION

Products which are considered hazardous or supply are classified as special waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or local waste regulator for advice.



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#### 14. TRANSPORT INFORMATION

**Domestic(Land,ADR):**

shipping name: Ethanol

Hazard class: 3

Hazard code: F1 UN

UN No. : 1170

Packaging group: II

**International (water ,I.M.O)**

shipping name: Ethanol

Hazard class: 3.2

Hazard code: F1

UN No. : 1170

Packaging group: II

**International (Air ,I.C.A.O)**

shipping name: Ethanol

Hazard class: 3.2

Hazard code: F1 UN

UN No. : 1170

Packaging group: II

#### 15. REGULATORY INFORMATION

**International Regulations:**

Classification and labelling must be preformed according to EU directive as amended and adapted, or USA directives, or respective national laws.



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### **European Communities Dangerous Substances/ Preparations:**

**Risk phrases:** R11 – Highly flammable.  
R22 - Harmful if swallowed.  
R36 – Irritating to eyes.

**Safety phrases:** S2 – Keep out of the reach of children  
S7 – Keep container tightly closed.  
S16 – Keep away away from sources of ignition.  
No smoking!  
S20/21 – When using do not eat or drink.  
S26 – In case of contact with eyes, rinse immediately with a plenty of water and seek medical advice.  
S46 – If swallowed seek medical advice immediately and show the container, label or MSDS.

## **16. OTHER INFORMATION**

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Mr. Dvir Frankel  
QA Manager  
Ophir Optronics LTD