



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 Plus– Wipes for lens cleaning**  
Supplier: Ophir Optronics Ltd.  
6 Hartom St. Har-Hotzvim  
Jerusalem 91450, Israel  
Fax: 972-2-5822338  
Email: [co2optics@ophiropt.com](mailto:co2optics@ophiropt.com)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Characteristics:

Non-woven fabric wipe saturated with %6 Acetic Acid 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**

Ingredient	CAS Number	Percent	Hazardous
White Distilled Vinegar	8028-52-2	~100%	No OSHA limit levels established

### 4. PHYSICAL & CHEMICAL PROPERTIES

Product Description: White Distilled Vinegar  
Formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub> Molecular  
Weight: 60.06  
Storage Temperature: RT  
pH (1% v/v): Under Development (2.0 – 5.0 suspected range)  
Vapor Density: ~2.1  
Boiling Point: 244°F, 118°C  
Specific Gravity: ~1.01  
Solubility: Miscible with Water  
Appearance: Colorless, clear liquid  
Odor: Slight pungent odor

## 5. HAZARDS IDENTIFICATION

Label Hazard Warnings: Irritating to eyes, respiratory system, and skin  
Label Precautionary Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing.  
Laboratory Protective Equipment: Safety glasses, protective gloves, and lab coat

## 6. POTENTIAL HEALTH HAZARDS/ TOXICOLOGICAL INFORMATION

Toxicity: LD50 (Oral-Rat)(mg/Kg): N/A  
LD50 (IV-Mouse)(mg/Kg): N/A  
LD50 (Oral-Mouse)(mg/Kg): N/A

Carcinogenicity: NTP: No  
IARC: No  
Z List: No  
OSHA Reg: No

Effects of Overexposure: Irritation, itching, gastrointestinal upset, possible mutagenic and reproductive effects, dermatitis, weight loss, liver impairment, convulsions, breathing difficulties

Target Organs: Liver, eyes

Medical Conditions Aggravated By Exposure: Ulcer

Routes of Entry: Ingestion, inhalation, skin and eye contact

## 7. EMERGENCY AND FIRST AID

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May	Flush immediately with large

	cause redness, tearing, or blurred vision.	amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash Contaminated clothing. Get medical attention if irritation persists.

## 8. FIRE HAZARDS & FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	N/A
Flammable Limits:	Upper – N/A %      Lower – N/A %
Fire Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Special Fire-Fighting Procedures:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance. Unusual Fire & Explosion Hazards: May emit toxic fumes under fire conditions. Toxic Gases Produced: Carbon monoxide, carbon dioxide

## 9. REACTIVITY & CONDITIONS TO AVOID

Stability:	Stable under normal conditions of use – Material may be slightly flammable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Excessive heat, flame, incompatibles
Incompatibles:	Strong oxidizing agents, acetaldehyde, 2-aminoethanol, ammonium nitrate, ammonium thiosulfate, bromine pentafluoride, chlorine trifluoride, chromic compounds, ethylene diamine, nitric acid, perchloric acid, permanganates, strong bases, peroxides
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide

## 10. SPECIAL PRECAUTIONS/PROTECTIVE EQUIPMENT

Ventilation:	Ventilation hood
Respiratory Protection:	A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.
Eye/Skin Protection:	Have eye-washing facilities readily available where eye contact

can occur. Wear chemical safety goggles. Use appropriate chemical protective gloves when handling. Showering and changing into street clothes after work is recommended.

## 11. TRANSPORTATION DATA

Domestic (D.O.T.):	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A
International (I.M.O.):	Proper Shipping Name:	CHEMICALS, N.O.S. (NON- REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A

## 12. REGULATORY INFORMATION

### U.S. Federal Regulatory Information

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients:	No
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredients:	Yes – Acetic Acid

### SARA TITLE III NOTIFICATION INFORMATION

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	Yes
Sudden Release of Pressure Hazard:	No

### International Regulatory Information

Risk Phrases: 36/37/38 – Irritating to eyes, respiratory system, and skin

Safety Phrases: 26 – In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice

36 – Wear suitable protective clothing

### 13. STORAGE:

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

### 14. 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