



# MATERIAL SAFETY DATA SHEET

## 1.- COMPANY AND PRODUCT IDENTIFICATION

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**PRODUCT NAME:** LUMINA GLASS CLEANER  
**CAS NUMBER:** N/A  
**PRODUCT DESCRIPTION:** LIQUID BLEND OF DETERGENTS IN AEROSOL  
**CONTACT ADDRESS:** *Artlux, S. A. de C. V.*  
ACCESO II CALLE 3 #5  
ZONA INDUSTRIAL BENITO JUÁREZ  
C. P. 76120, QUERÉTARO, QRO., MÉXICO  
**EMERGENCY PHONE NUMBER:** (442) 3093200

## 2.- HAZARDOUS INGREDIENTS

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NAME	CAS NU.	PERCENTAGE
ISOPROPANOL	67-63-0	2 – 5 %
1,1-DIFLUOROETHANE	75-37- 6	15 – 35 %

## 3.- CHEMICAL AND PHYSICAL PROPERTIES

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APPEARANCE	LIQUID
COLOR	WHITE FOAM
SPECIFIC GRAVITY (g/ml)	0.995 @ 25°C
PH	8.58
BOILING POINT (°C)	N/A
FLASH POINT (CLOSED CUP) (°C)	N/A
VAPOR PRESSURE (mmHg)	N/A
VISCOSITY (cps)	SAME AS WATER
WATER SOLUBILITY	SOLUBLE

## 4.- HEALTH HAZARD INFORMATION

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### MAIN HAZARDS:

MAY IRRITATE EYES AND SKIN.

### HEALTH HAZARDS

EXPOSURE TO THIS PRODUCT CAN OCCUR THROUGH INGESTION, AND SKIN AND EYE CONTACT.

### POTENTIAL HEALTH EFFECTS, SKIN

CONTACT WITH THIS PRODUCT MAY IRRITATE SKIN.

### POTENTIAL HEALTH EFFECTS, EYE CONTACT

MAY CAUSE MILD IRRITATION AND TEARING. PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION AND REDNESS.

### POTENTIAL HEALTH EFFECTS, INHALATION

INHALATION TOXICITY IS LOW. VAPORS AND MIST MAY IRRITATE THROAT AND NOSE.

### POTENTIAL HEALTH EFFECTS, INGESTION

IN SIMPLE DOSES TOXICITY IS LOW. INGESTING GREAT QUANTITIES OF THIS PRODUCT MAY BE HARMFUL.

## 5.- FIRST AID

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**EYE CONTACT:** IMMEDIATELY WASH EYES WITH PLENTY WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

**SKIN CONTACT:** WASH SKIN WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

**INGESTION:** DO NOT INDUCE VOMITING. GIVE WATER TO DRINK. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING IN THE MOUTH TO AN UNCONSCIOUS PERSON.

**INHALATION:** REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION.

## 6.- FIRE AND EXPLOSION INFORMATION

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### FLAMMABILITY CATEGORY

NFPA 30: AEROSOL LEVEL 1  
FLAME EXTENSION: 0"  
NON FLAMMABLE AEROSOL

**FLASH POINT:** N/A

**FLAMMABILITY LIMITS IN AIR, LOWER, % BY VOLUME:** N/A

**FLAMMABILITY LIMITS IN AIR, UPPER, % BY VOLUME:** N/A

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, DRY CHEMICALS, FOAM, WATER. WATER MAY BE USED TO COOL CONTAINERS.

**SPECIAL FIREFIGHTING PROCEDURES:** NONE

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE

## 7.- ACCIDENTAL SPILLS OR LEAKS

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### PROCEDURE IN CASE OF SPILLS OR LEAKS

THE FOLLOWING STEPS SHOULD BE FOLLOWED IN CASE MATERIAL IS RELEASED OR SPILLED: PERSON NOT WEARING PROTECTIVE EQUIPMENT AND CLOTHING SHOULD BE RESTRICTED FROM CONTAMINATED AREAS UNTIL HAS BEEN COMPLETED.

1. CONTAIN AND ABSORBE WITH NON-FLAMMABLE MATERIAL.
2. WASH RESIDUES WITH SOAP AND WATER.
3. DO NOT DISPOSE INTO DRAIN, WATER STREAMS OR WATER DEPOSITS.
4. COOL CONTAINERS WITH WATER. THEY COULD GENERATE PRESSURE AND EXPLODE IF HEATED.

### DISPOSAL

DISPOSAL CAN OCCUR ONLY IN PROPERLY PERMITTED FACILITIES. CHECK STATE AND LOCAL REGULATIONS FOR ANY ADDITIONAL REQUIREMENTS AS THESE MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS AND REGULATIONS. CHEMICAL ADDITIONS, PROCESSING OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE THE WASTE MANAGEMENT INFORMATION PRESENTED IN THIS MSDS INCOMPLETE, INACCURATE OR OTHERWISE INAPPROPRIATE. DISPOSAL OF THIS MATERIAL MUST BE CONDUCTED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

## 8.- HANDLING AND STORAGE

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**STORAGE:** KEEP CONTAINERS IN A FRESH, DRY PLACE. KEEP AWAY FROM HEAT, SPARKS OR FLAMES. DO NOT STORE AT TEMPERATURES ABOVE 49 °C. CONTAINERS MAY EXPLODE IF EXPOSED TO HIGH TEMPERATURES OR HEAT.

**HANDLING:** KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH EYES. AVOID BREATHING VAPORS. WASH HANDS AFTER HANDLING. KEEP AWAY FROM HEAT, SPARKS OR FLAMES. EMPTY CONTAINERS MAY RETAIN VAPORS. DO NOT REUSE, CUT, WELD OR PUNCTURE CONTAINER.

## 9.- EXPOSURE CONTROL/PERSONAL PROTECTION

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**VENTILATION:** USE LOCAL VENTILATION.

**SKIN PROTECTION:** NOT NECESSARY UNDER NORMAL USE.

**EYE PROTECTION:** NOT NECESSARY UNDER NORMAL USE.

**RESPIRATORY PROTECTION:** NOT REQUIRED UNDER NORMAL USE. AVOID BREATHING VAPORS. IN EMERGENCIES OR CONDITIONS IN WHICH EXPOSURE LIMITS MAY BE EXCEEDED, USE COMPLETE POSITIVE PRESSURE EQUIPMENT OR AUTONOMOUS BREATHING APPARATUS.

**SPECIAL CLOTHES:** NO REQUIRED.

## 10.- REACTIVITY AND STABILITY

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**STABILITY:** STABLE UNDER NORMAL CONDITIONS. SEE 8. HANDLING AND STORAGE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR.

**HAZARDOUS DECOMPOSITION PRODUCTS:** IF HEATED WITH PEROXIDES VIOLENT DESCOMPOSITION CAN OCCUR.

## 11.- TOXICITY INFORMATION

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### ISOPROPANOL

ORAL LD 50 HUMAN: 5-15 g/Kg  
ORAL LD 50 RAT: 5.045 g/Kg  
DERMAL LD 50 RABBIT: 12.8 g/Kg  
INHALATION LC 50 RAT: 16000 PPM-8 H

### 1,1 DIFLUOROETHANE

NOT DETERMINED

## 12.- EXPOSURE LIMITS

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### PROPANOL

OSHA (PEL) 400 PPM (TWA)  
ACGIH (TLV) 400 PPM (TWA)

### 1,1 DIFLUOROETHANE

NOT DETERMINED

TWA : Time Weighted Average

STEL : Short Term Exposure Limit

OSHA: Occupational Safety & Health Administration

NIOSH: National Institute for Occupational Safety and Health

ACGIH: The American Conference of Governmental Industrial Hygienists

TLV: Threshold limit value

PEL: Permissible exposure limit

## 13.- SIGNAL AND LABEL INFORMATION

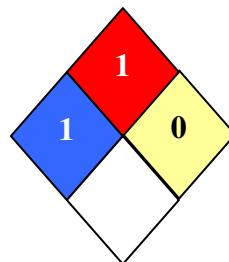
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**NFPA CODE:** HEALTH: 1; FIRE: 1; REACTIVITY: 0

**HMIS CODE:** HEALTH: 1; FIRE: 1; REACTIVITY: 0

### CAUTION LABELS:

- MAY IRRITATE EYES AND SKIN.
- DO NOT EXPOSE TO HEAT, SPARKS OR OPEN FLAMES.
- DO NOT STORE ABOVE 49 °C



## 14.- SHIPPING INFORMATION

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### U.S. Department of Transportation (DOT) 49 – CFR 172

#### General Transportation Information for Shipments

Shipping name: Non flammable aerosol, n.o.s. (Consumer Commodity, ORM-D may be used for ground transportation within the USA)

UN Number: 1950

Class/Division: 2.2

Packing Group (PG): N/A

Label: Contents under pressure

## **15.- ADDITIONAL INFORMATION**

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THE INFORMATION PRESENTED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE TO THE DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, A MSDS MAY NOT BE USED AS A COMMERCIAL SPECIFICATION SHEET OF MANUFACTURER OR SELLER, AND NO WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR COMPREHENSIVENESS OF THE FOREGOING DATA AND SAFETY INFORMATION, NOR IS ANY AUTHORIZATION GIVEN OR IMPLIED TO PRACTICE ANY PATENTED INVENTION WITHOUT A LICENSE.

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