



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ALTECO ELEPHANT GLUE (SG-2)  
Synonym(s): None  
Product Code: None  
General Use: Adhesives  
Product Description: Powerful instant glue on cyanoacrylate.  
Company Name: ALTECO CHEMICAL PTE LTD  
Address: 19, TUAS AVENUE 11, SINGAPORE 639084  
Telephone No: 65-6862 0377  
Emergency Telephone No: 65-6862 0221

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable Liquid Category 4  
Pyrophoric Liquids Not classified  
Corrosive To Metals Not classified  
Acute Toxicity (Oral) Not classified  
Acute Toxicity (Dermal) Not classified  
Acute Toxicity (Inhalation (vapour)) Classification not possible  
Skin Corrosion/Irritation Category 2  
Eye Irritation Category 2B  
Respiratory Sensitizer Category Classification not possible  
Skin Sensitizer Category 1  
Germ Cell Mutagenicity Classification not possible  
Carcinogenicity Classification not possible  
Reproductive Toxicity Classification not possible  
Target Organ Systemic Toxicity (Single Exposure) 3(Respiratory Irritation)

#### GHS Label Elements

GHS Symbol Exclamation Mark  
GHS Signal Word Warning  
Hazard Statements Combustible Liquid.  
Causes skin irritation.  
Causes eye irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.



#### Emergency Overview:

Vapor is irritating to eyes, skin and mucous membranes and respiratory tract.

#### Potential Health Effects:

May cause sensitization by inhalation. Narcotic effects, headache, dizziness, vomiting.

Skin: dryness Eye: irritation

#### Potential Environmental Effects:

Not available.

#### Signs And Symptoms Of Exposure:

Vapor is irritating to eyes and mucous membranes above TLV.

Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

#### Existing Conditions Aggravated By Exposure:

None known

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	wt%	CAS Registry No.	Chemical Formula
Ethyl cyanoacrylate	90-99	7085-85-0	$\text{CH}_2\text{C}(\text{CN})\text{COOC}_2\text{H}_5$
Hydroquinone	0.1-0.9	123-31-9	$\text{C}_6\text{H}_4(\text{OH})_2$
Polymethylmethacrylate	1-10	9011-14-7	$(\text{C}_5\text{H}_8\text{O}_2)_n$

#### Inventory Status: Ethyl cyanoacrylate

TSCA Listed  
EINECS No. 2303915  
RTECS No. UD3330050  
ICSC No. 1358  
EC No. 607-236-00-9

#### 4. FIRST AID MEASURES

Ingestion:	Ingestion is not likely. See supplemental page for emergency procedures.
Inhalation:	Evacuate from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If the breath has stopped, have artificial respiration. If breathing difficulty occurs, have oxygen inhalation.
Skin contact:	Remove contaminated clothing. Wash contact areas with soap and much water.
Eye contact:	Flush thoroughly with fresh water for at least 15 min. Get medical assistance immediately.

#### 5. FIRE FIGHTING MEASURES

Flash Point:	above 75 (167 F) Cleveland open cup
Autoignition temperature:	485 (905 F)
Explosive Limits:(%by volume in air)Lower:	Not available
(%by volume in air)Upper:	Not available
Recommended Extinguishing agents:	Carbon dioxide, form ,dry chemical
Special firefighting procedures:	Not available
Hazardous products formed by fire or thermal decomposition:	Irritating organic fragments.
Unusual fire or explosion hazards:	None

#### 6. ACCIDENTAL RELEASE MEASURES

Evacuate non essential personnel.	
Shut off all sources of ignition ; No fires , smoking or flames in area.	
Ventilate area after material pick up is completed.	
For small spills:	Absorb spill with inert material (dry cloth, dry sand), then place in a chemical waste containers using non-sparking tools. Flush residual spill (area) with plenty of water.
For large spills:	Dike for later disposal. Wash with plenty of water.

#### 7. HANDLING AND STORAGE

Handling:	Keep away from sources of ignition and heat. No smoking or flames in working area. Take precautionary measures against static discharges. Avoid contact with skin and eyes. Wear proper protective equipment. Use only in well ventilated areas. Use exhaust ventilation to keep air concentration below exposure limit. Keep container tightly closed when not in use. Install emergency showers and eye wash facility in working area.
Storage:	Keep away from all possible source of ignition. Store in a cool, dry, well ventilated location. Keep container tightly closed. Keep away from combustible materials, heat, steam pipe or sunlight. Keep away from oxidizing materials.
Other Precautions:	Wash hands, face and gargle after work. Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the rest room. Keep out of reach of children.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection (Specify type):	Chemical cartridge respirator with organic vapor.
Ventilation	Local exhausts Should be used control vapors in work area. Mechanical (General) Should use a breathing mask.
Protective gloves:	Polyethylene gloves, No rubber.
Eye protection	Safety glasses, face shield.
Skin protection:	Other protective clothing or equipment impervious clothing, apron and boots. Barrier creams, etc.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent or light yellowish liquid
Odor:	Sharp, irritating.
Boiling point:	above 190 (374 F)
Melting point:	N/A
Specific gravity (H <sub>2</sub> O =1):	0.91.1

Vapor pressure (at25 ): 1Pa  
Vapor density (Air =1): 4.5  
Evaporation rate (Butyl acetate =1): N/A  
Solubility in water: Insoluble(polymerized by water)

## 10. STABILITY AND REACTIVITY

Condition to avoid: High humidity, high temperature or direct sunlight.  
Stability: Stable (cool and dry area.).  
Materials to avoid: Polymerized by contact with water, alcohols, amines, alkalis.  
Hazardous decomposition or by products: CO<sub>2</sub>, oxides and nitrogen and unknown hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

Toxicity: Skin contact may cause burns.  
Bond skin rapidly and strongly.  
Skin and eye irritant.  
Ethyl Cyanoacrylate: Oral LD<sub>50</sub> : 5000mg/kg in rat. (Acute)  
Hydroquinone: Oral LD<sub>50</sub> : 593mg/kg in rat. (Acute)

Routes of entry: Inhalation (Yes), skin (Yes), Ingestion (Yes)

Ingredients which have exposure limits

	ACGIH(TLV)	OSHA(PEL)	OTHER
Ethyl cyanoacrylate	0.2ppm TWA	None	None
Hydroquinone	1mg/m <sup>3</sup>	-	-

Ingredients	Literature Referenced Target Organ And Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Ethyl cyanoacrylate	ALG IRR RES	No	No	No

Abbreviations:

N/A	Not applicable	AC3	ACGIH animal carcinogen
ALG	Allergen	BLO	Blood
BNM	Bonen marrow	CNS	Central nervous system
EYE	Eyes	IMM	Immune system
IRR	Irritant	LIV	Liver
MUT	Mutagen	RES	Respiratory

## 12. ECOLOGICAL INFORMATION

Not data available

## 13. DISPOSAL INFORMATION

Waste disposal method: Don't pour into drain. Follow domestic and local environmental regulations.  
Precautions to be taken in handling and storing: Avoid unnecessary exposure to air and moisture. Don't store above 25 and in direct sunlight. Keep container's lid tightly closed.  
Other Precautions: Avoid contact with skin and eyes. Protect eyes, skin and clothing from contact with liquid product. Wear recommended equipment.

## 14. TRANSPORT INFORMATION

International Air Transportation (ICA/IATA)

Proper shipping name: Unrestricted  
Class or division: Unrestricted  
UN or ID number: None

Water Transportation (IMO/IMDG)

Proper shipping name: Unrestricted  
Hazard class or division: None  
Identification number: None  
Marine pollutant: None

## 15. REGULATORY INFORMATION

On the basis of the data available to us, the compound is not a dangerous product. One should, however, observe the usual precautionary measures for the dealing with chemicals.

## **16. OTHER INFORMATION**

The information contained and provided herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.