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### SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

Product Name: ALTECO MR

Synonym(s):

Product Code:

General Use:

None

Adhesives

Product Description: Powerful instant glue on cyanoacrylate.

Company Name: ALTECO INC

Address: 5-8 Nishiekimae-Cho Ibaraki-City Osaka Japan

Telephone No: +81-72-627-1617 Emergency Telephone No: +81-72-627-1617

### 2. Hazard Identification

## **GHS Classification (Based on NITE)**

### **Physical Hazards**

Explosives Classification not possible

Flammable gases

Flammable aerosols

Oxidizing gases

Not applicable

Oxidizing gases

Not applicable

Gases under pressure

Not applicable

Flammable liquids

Category 4

Flammable solids

Not applicable

Self-reactive substances and mixtures Classification not possible

Pyrophoric liquids Not applicable
Pyrophoric solids Not applicable

Self-heating substances and mixtures Classification not possible

Substances and mixtures which, in contact

with water, emit flammable gases

Oxidizing liquids

Oxidizing solids

Organic peroxides

Corrosive to metals

Not applicable

Not applicable

Not applicable

Not applicable

Not classified

Human Health Hazards

Acute toxicity (Oral)

Acute toxicity (Dermal)

Acute toxicity (Inhalation: Gases)

Acute toxicity (Inhalation: Vapors)

Acute toxicity (Inhalation: Dusts)

Category 2

Acute toxicity (Inhalation: Dusts)

Not applicable

Acute toxicity (Inhalation: Mists)

Classification not possible

 Skin corrosion/irritation
 Category 2

 Serious eye damage/eye irritation
 Category 2A

 Respiratory sensitization
 Category 1

 Skin sensitization
 Not classified

 Germ cell mutagenicity
 Category 1B

Carcinogenicity

Classification not possible

Reproductive toxicity

Classification not possible

Classification not possible

Specific target organ toxicity - Single exposure

Category 3(respiratory irritation)

Specific target organ toxicity - Repeated exposure

Classification not possible

Aspiration hazard

Classification not possible

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#### **Environmental Hazards**

Acute toxicity to the aquatic environment Category 3

Chronic toxicity to the aquatic environment Classification not possible
Hazardous to the ozone layer Classification not possible

#### **Label Elements**

Pictogram and Symbol: Skull And Crossbone, Health hazard

Signal word : Danger

Hazard statement : Combustible liquid

Harmful if swallowed
Fatal in inhaled.
Causes skin irritation

Causes serious eve irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

 $\label{eq:maycause} \mbox{May cause respiratory irritation} \ .$   $\mbox{May cause genetic defects}$ 

Harmful to aquatic life

### Precaution:

### [Prevention]

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing mist/vapors/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

#### [Response]

If on skin: Wash with plenty of soap and water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use appropriate extinction.

### [Storage]

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

## [Disposal]

Dispose of contents/container in accordance with local/regional/ national/international regulations.

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## 3. Composition/information on ingredients

 $3.1\ Substance: Methyl\ 2\text{-cyanoacrylate}$ 

3.2 Other name: 2-Cyanoacrylic acid, methyl ester, 2-Cyano-2-propenoic acid, methyl ester, METHYL 2-CYANOACRYLATE, Methyl alpha-cyanoacrylate

### 3.3Ingredients

Ingredients	wt%	CAS Registry No.	Chemical Formula
Methyl cyanoacrylate	90~99	137-05-3	CH <sub>2</sub> C(CN)COOCH <sub>3</sub>
PMMA	<10	secret	secret
Hydroquinone	0.1~0.3	123-31-9	C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub>

3.4Inventory status: Methyl cyanoacrylate

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TSCA Listed
EINECS No. 205-275-2
RTECS No. AS7000000
ICSC No. 1272

EC No. 607-235-00-3 EC Classification Xi;R36/37/38

EC Labeling Xi R: 36/37/38 S: (2-)23-24/25-26

### 4. First aid measures

4.1 Description of necessary measures, subdivided according to the different routes of exposure, ie, inhalation, skin and eye contact, and ingestion

If on skin: Wash with plenty of soap and water.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or

doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call

a POISON CENTER or doctor/physician.

4.2 Indication of immediate medical attention and special treatment needed, if necessary

If skin irritation or rash occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

## 5. Firefighting measures

5.1 Acute hazards/symptoms in fire : Combustible.5.2 Prevention in fire : No open flames.

5.3 First aid /Firefighting in fire: In case of fire in the surroundings: use appropriate extinguishing media.

5.4 Acute hazards/symptoms in explosion: Above 75 °C explosive vapor/air mixtures may be formed.

5.5 Prevention in explosion: Above 75 °Cuse a closed system, ventilation, and explosion-proof electrical equipment.

5.6 First aid/firefighting in explosion: In case of fire: keep drums, etc., cool by spraying with water.

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#### 6. Accidental release measures

6.1 Evacuate nonessential personnel.

6.2 Shut off all sources of ignition; No fires, smoking or flames in area.

6.3 Ventilate area after material pick up is completed.

6.4 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.

6.5 For large spills: Dike for later disposal. Wash with plenty of water.

## 7. Handling and storage

7.1 Precautions for safe handling.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing mist/vapors/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

### 8. Exposure controls/personal protection

8.1 Control parameters, eg, occupational exposure limit values or biological limit values

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ACGIH 2007, TLV-TWA 0.2ppm

- 8.2 Appropriate engineering controls (Please refer to engineering controls described in "7.1 Precautions for safe handling".)
- 8.3 Individual protection measures, such as personal protective equipment (Please refer to Individual protection measures described in "7.1 Precautions for safe handling".)

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### 9. Physical and chemical properties

9.1 Appearance (physical state, color, etc): Transparent or Light Yellowish Liquid

9.2 Odor : Sharp, irritating9.3 Odor threshold : No data

9.4 pH: 4~6

9.5 Melting point/Freezing point: 1.5 °C

9.6 Initial boiling point and boiling range : above 190  $\,^{\circ}\text{C}(374\,^{\circ}\,\,\text{F})$ 

9.7 Flash point: above 83 °C(ICSC, 2001).

9.8 Evaporation rate : No data9.9 Flammability (solid, gas) : liquid

9.10 Upper/lower flammability or explosive limits: lower limit 1.7 vol%

9.11 Vapor pressure :  $<26.7 \text{ Pa} (25 \text{ }^{\circ}\text{C})$ 9.12 Relative density :  $0.9 \sim 1.1 \text{ (water=1)}$ 

9.13 Solubility(ies): not soluble in water. slightly soluble in alcohol, acetone, MEK, toluene, DMF, nitromethane.

9.14 Partition coefficient: n-octanol/water: LogPow 0.03

9.15 Autoignition temperature : 465  $\,^{\circ}\mathrm{C}$  9.16 Decomposition temperature : No data

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## 10. Stability and reactivity

10.1Condition to avoid: High humidity, high temperature or direct sunlight.

10.2 Stability: Stable (cool and dry area.).

10.3 Materials to avoid: Polymerized by contact with water, alcohols, amines, alkalies.
 10.4 Hazardous decomposition or by products: CO<sub>2</sub>, oxides and nitrogen and unknown hydrocarbons.

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## 11. Toxicological information

11.1 Acute toxicity (Oral)

Category 4 by NITE Data Base.

11.2 Acute toxicity (Dermal)

No data available.

11.3 Acute toxicity (Inhalation: Gases)

Liquid (GHS definition)

11.4 Acute toxicity (Inhalation: Vapors)

Category 2 by NITE Data Base.

11.5 Acute toxicity (Inhalation: Dusts / Mist)

No data available.

11.6 Skin corrosion / irritation

Category 2 by NITE Data Base.

11.7 Serious eye damage / eye irritation

Category 2A by NITE Data Base.

11.8 Respiratory sensitization / Skin sensitization

Respiratory sensitization was set to Category 1. And skin sensitization was out of Category .

11.9 Germ cell mutagenicity

Category 1B by NITE Data Base.

11.10 Carcinogenicity

No data available.

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11.11 Reproductive toxicity

No data available.

11.12 Specific target organ toxicity - Single exposure

Category 3 by NITE Data Base. May cause respiratory irritation

11.13 Specific target organ toxicity - Repeated exposure

No data available.

11.14 Aspiration hazard

No data available.

### 12. Ecological information

12.1 Acute toxicity to the aquatic environment

Category 3 by NITE Data Base.

12.2 Chronic toxicity to the aquatic environment

No data available.

12.3 Hazardous to the ozone layer

No data available.

### 13. Disposal considerations

13.1 Description of waste residues and information on their safe handling and methods of disposal

If you would like to dispose of this chemical, you should properly dispose of this by yourself or ask qualified specific agents dispose of this according to related legislations and local regulations. If you would like to ask the agents dispose of this chemical, you should provide sufficient information on dangerousness and hazard of this chemical.

13.2 The disposal of any contaminated packaging

Container should be recycled after cleaning or if you would like to dispose of container of this chemical, you should properly dispose of this by yourself or ask qualified specific agents dispose of this according to related legislations and local regulations. If you would like to ask the agents dispose of this container, you should provide sufficient information on dangerousness and hazard of this chemical in this container and information on ingredient and notice of container.

### 14. Transport information

14.1 U.S.Department of Transportation Ground Transport (49 CFR 172)

Proper shipping name: Unrestricted (Not more than 450 liters.)

Combustible liquids n.o.s. (Cyanoacrylate ester) (More than 450 liters)

Hazard class or division: Unrestricted (Not more than 450 liters.)

Combustible liquids. (More than 450 liters)

Identification number: None (Not more than 450 liters.)

NA1993 (More than 450 liters)

Marine pollutant: None.

14.2 International Air Transportation (ICA/IATA)

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

14.3 Water Transportation (IMO/IMDG)

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

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## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question (under survey)

CA Proportion 65: No California proposition 65 chemicals are known to be present.

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TSCA 8(b) Inventory Status: All components are listed or are exempt from listing on Toxic Substances Control Act Inventory.

EINECS: All components are listed on EINECS

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# 16. Other information including information on preparation and revision of the SDS

(Reference)

NITE GHS Classification of this substance (English/Japanese)

NITE review data by public comment (Japanese-Hydroquinone 2007.12.25)

GHS Model Label of this substance (English/Japanese)

GHS Model Label List of 714 Chemicals in OSH in Japan (English/Japanese)

GHS Classification Manual, Technical Guidance and Results of the classification in Japan (English/Japanese)

Technical Guidance on GHS classification in Japan (English/Japanese)

Japan Advanced Information center of Safety and Health - Chemical information (Only Japanese)

ICSC 1272 (English/Japanese)

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