

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

Product Name: AXIA MP-2

Product Type: Cyanoacrylate adhesive

Chemical Name: Chemical mixture

Company Address:

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Section 2 Hazards Identification

A. Hazard · Risk Classification

Skin corrosion/irritation: Category 2

Serious eye damage/irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity (single exposure): Category 3 (respiratory tract irritation)

B. Lable elements including precautionary statements

Symbol



Signal word

Warning

Hazard · Risk statement

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of soap and water.

P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

C. Other Hazard·Risk which are not included in the classification criteria(e.g. dust explosion hazard).

Health	2
Fire	2
Reactivity	2

Section 3 Composition / Information on Ingredients

Chemical Name	Other name	CAS No.	Content(%)
Ethyl Cyanoacrylate	ECA; ETHYL CYANOACRYLATE; 2-CYANO-2-PROPENOIC ACID, ETHYL ESTER	7085-85-0	80-90
METHYL METHACRYLATE, POLYMERIZED	2-METHYL-2-PROPENOIC ACID	9011-14-7	5-15

Section 4 First aid measures

A. Eye contact

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.

If eye irritation persists, get medical advice/attention.

B. Skin contact

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

Take off contaminated clothing.

In the case of hot materials, immerse or wash affected areas in a large amount of cold water to remove heat.

Get emergency medical attention.

Remove contaminated clothing and shoes and isolate contaminated areas.

In case of contact with substance, wash skin and eyes immediately with running water for more than 20 minutes.

Avoid dispersal of the contaminated material in the presence of minor skin contact.

C. Inhalation

If excessive dust or fumes are present, remove with clean air and seek medical attention if coughing or other symptoms occur.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

D. Ingestion

Get emergency medical attention.

E. Indication of immediate medical attention and notes for physician

Have medical personnel perceive and take protective action against the substance.

Section 5 Fire Fighting Measures

A. Suitable Extinguishing Media

Use alcohol foam, carbon dioxide or water spray for digestion related to this material.

Use dry sand or earth for digestion.

B. Specific hazards arising from the chemical

Containers may explode when heated.

Some can ride, but not easily ignite.

Non-flammable, the substance itself is not burned but decomposes on heating and may

cause corrosive / toxic fumes

C. Special protective equipment and precautions for fire-fighters

Rescuers should wear appropriate protective equipment.

Fight fire with normal precautions from a reasonable distance.

Be aware that it may be melted and transported.

Drill ditches for the disposal of digestive waters to prevent them from being scattered.

Move containers from fire area if you can do it without risk.

In the event of tank fire, use fire extinguisher at maximum distance or use unmanned firefighting equipment.

Cool containers with large amounts of water even after the fire has extinguished.

In the event of a tank fire, if there is a high tone in the pressure relief device or if the tank is discolored, immediately withdraw it.

In the event of a tank fire, escape from a flamed tank during a fire.

In the event of a large fire, use unmanned fire fighting equipment and allow it to retreat if it is impossible.

Section 6 Accidental Release Measures

A. Personal precautions, protective equipment and emergency procedures

Wipe off any spills immediately and follow all protective precautions.

Remove all ignition sources.

Stop the leak if it is not dangerous.

Do not touch a damaged container or spilled materials unless wearing appropriate protective clothing.

Cover with plastic sheet to prevent spreading.

Note the substances and conditions to avoid.

Avoid breathing dust / fume / gas / mist / vapors / spray.

B. Environmental precautions and protective procedures

Prevent entry into waterways, sewers, basements and confined areas.

C. Methods and materials for containment and cleaning up

Absorb spillage with inert material (e.g. dry sand or earth) and place in a chemical waste container.

Absorb liquid and rinse contaminated area with detergent and water.

Section 7 Handling and Storage

A. Precautions for safe handling

Follow all MSDS / label precautions even after container is emptied because it may retain product residues.

Use care in handling/storage.

Carefully open the stopper before opening.

Avoid prolonged or repeated skin contact.

Note the substances and conditions to avoid.

Refer to engineering controls and personal protective equipment.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

B. Conditions for safe storage

Empty drums should be completely drained, properly blocked and immediately returned to the drum regulator or placed properly.

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

Section 8 Exposure Controls and Personal Protection

A. Control parameters

ACGIH regulation TWA 0.2 ppm

B. Appropriate engineering controls

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

C. Personal protective equipment

- Respiratory protection

Wear respiratory protection product approved by KOSHA according to physicochemical properties of exposed material.

Section 9 Physical and Chemical properties

Physical State	Liquid
Odour	Irritating odor
Odour threshold	No data
pH	No data
Meting point / freezing point	No data
Initial boiling point(°C)	54

Flash point(°C)	93
Evaporation rate	No data
Flammability(solid, gas)	No data
Vapor Pressure	< 0.2mmHg @24 °C
Solubility	0.321g/100ml @24 °C
Vapor density(air=1)	3.0
Relative density(water=1)	1.05 @24 °C
Partition coefficient: n-octanol/water	1.42
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity(cps, @25 °C)	200
Molecular mass	124.98

Section 10 Stability and Reactivity

A. Chemical Stability and possibility of hazardous reactions

Container may explode on heating

Some can ride, but not easily ignite

Non-flammable, the substance itself is not burned but decomposes on heating and may cause corrosive / toxic fumes

May cause irritating, corrosive and toxic gases in case of fire

B. Conditions to avoid

Heat source, spark, flame, etc.

C. Incompatible materials

Combustible materials, reducing materials

D. Hazardous decomposition products

Corrosive / toxic fume

Irritating, corrosive, toxic gas

Section 11 Toxicological Information

A. Information on the likely routes of exposure

May cause irritation, allergic reactions, lung congestion

No information on significant side effects

May cause irritation (possibly severe), allergic reactions

May cause irritation and eye damage.

B. Health hazards information

- Acute toxic

Oral LD50 > 5,000 mg/kg Rat

Dermal LD50 > 2,000 mg/kg Rabbit

- Inhalation

No data available

- Skin corrosive/irritant

Causes skin irritation

- Serious eye damage/eye irritation

Causes eye irritation

- Respiratory sensitization

No data available

- Skin sensitization

Contact dermatitis, patch test result-positive reaction

- Carcinogenicity

No data available

- IARC

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- OSHA

No data available

- ACGIH

No data available

- NTP

No data available

- EU CLP

No data available

- Germ Cell Mutagenicity

No data available

- Reproductive toxicity

No data available

- Specific target organ toxicity(single exposure)

Respiratory tract irritation in rats, humans

Inhalation with material may irritate respiratory tract

- Specific target organ toxicity(repeated exposure)

No data available

- Aspiration hazard

No data available

Section 12 Ecological Information

A. Aquatic and terrestrial ecotoxicity

- Fish

No data available

- Shellfish

No data available

- Birds

No data available

B. Persistence and degradability

- Persistence

No data available

- resolvability

No data available

C. Bioaccumulative potential

- Concentration

No data available

- Bio resolvability

No data available

D. Mobility in soil

No data available

E. Other adverse effects

No data available

Section 13 Disposal Considerations

A. Disposal method

Dispose according to the related regulations.

B. Disposal precaution

Follow details of related waste management act.

Section 14 Transportation Information

A. UN number

No data available

B. UN proper shipping name

N/A

C. Transport hazard class

N/A

D. Packing group

N/A

E. Marine pollution

No data available

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises

- Emergency procedure at fire

Refer to Section 5. Fire Fighting Measures

- Emergency procedure at leakage

Refer to Section 6. Accidental Release Measures

※ **This product is NOT classified as dangerous for IATA Transport**

Section 15 Regulatory Information

A. Industrial safety and health act

No data available

B. Toxic chemical control act

No data available

C. Dangerous material safety control act

No data available

D. Wastes management act

No data available

E. Other requirements in domestic and other countries

- EU classification information (confirmed classification result)

Xi; R36/37/38

- EU classification information (Risk phrases)

R36/37/38

- EU classification information (Safety phrases)

S2, S23, S24/25, S26

Section 16 Other Information

A. Information source and references

Korea Occupational Safety and Health Agency

B. Issuing date

September 18, 2007

C. Revision number and date

9th time, Apr 8, 2020

D. Others

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