

Aron Alpha#201

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Issue date : 2009/7/15

Version: 6.0 Revision date: 2020/6/5

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Trade name : Aron Alpha#201

Company/undertaking identification

Manufacturer : TOAGOSEI CO.,LTD.

Address : 1-14-1, Nishi-shimbashi, Minato-ku, Tokyo, 105-8419 Japan

Tel. : +81-3-3597-7275 Fax : +81-3-3597-7353

Emergency telephone

number

+81-3-3597-7275(Head Office Division)

Importer :

Address : Tel. : Fax :

Emergency telephone

number

Recommended uses and

restrictions

This product is used as an industrial adhesive. In using to the special applications for instance food, medical or agricultural chemicals, please check the safety in advance on your own. Please do not use this product for the implantation injected into the body, and also do not use it for the purpose that a portion of

the product remains in the body.

2. Hazards identification

[GHS classification]

Physical hazards Desensitized explosives No classification

Explosives No classification
Flammable gases No classification
Aerosols No classification
Oxidizing gases No classification
Gases under pressure No classification
Flammable liquids Category 4
Flammable solids No classification

Self-reactive substances and

mixtures

Classification not possible

No classification

Pyrophoric liquids No classification
Pyrophoric solids No classification

Self-heating substances and Classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

Oxidizing liquids No classification
Oxidizing solids No classification
Organic peroxides No classification



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Corrosive to metals Classification not possible

Health hazards Acute toxicity (oral) No classification No classification

Acute toxicity (dermal) Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapours) Classification not possible Classification not possible

Acute toxicity (inhalation:dust/mist)

Skin corrosion/irritation Classification not possible

Serious eye damage/eye irritation Category 2

Respiratory sensitization Classification not possible Skin sensitization Classification not possible Germ cell mutagenicity Classification not possible Carcinogenicity Classification not possible Reproductive toxicity Classification not possible

Specific target organ toxicity

(single exposure)

Category 3 (respiratory tract irritation)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

Classification not possible Hazardous to the aquatic Classification not possible

environment, short-term (acute) Hazardous to the aquatic

environment, long-term (chronic)

Classification not possible

Classification not possible

Hazardous to the ozone layer Classification not possible

Other hazards which do

not result in classification

May cause dermatitis/drunkenness by skin contact.

[Label elements]

Hazard pictograms (GHS JP)

Environmental

hazards



Signal word (GHS JP) Warning

Hazard statements Combustible liquid (H227)

(GHS JP)

Causes serious eye irritation. (H319) May cause respiratory irritation. (H335)

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other [Prevention]

> ignition sources. No smoking. (P210) Avoid breathing mist, vapours. (P261)

Wash hands, forearms and face thoroughly after handling. (P264)

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

Wear protective gloves, protective clothing, eye protection, face

protection. (P280)

IF INHALED: Remove person to fresh air and keep comfortable for [Response]

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. (P305+P351+P338)

Call a doctor if you feel unwell. (P312)

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



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In case of fire: Use dry sand, dry extinguishing powder, carbon

dioxide (CO2), foam to extinguish. (P370+P378)

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

(P403+P233)

Avoid direct sunlight and store in a cool, dark place with low

humidity. No fires.

Avoid storage with the Aron Alpha setter, the Aron Alpha

accelerator.

Store locked up. (P405)

[Disposal] : Dispose of contents/container in accordance with

local/regional/national/international regulations. (P501)

Overview expected state of

[Storage]

emergency

No data available

3. Composition/information on ingredients

Distinction of substance or mixture : Mixtures

Generic name : Mixture of Ethyl 2-Cyanoacrylate and additives

Name	Concentration (%)	Formula	Inventory Lists (JAPAN) ENCS No	CAS-No.
Ethyl-2-cyanoacrylate	>= 95	C6H7NO2	2-2789	7085-85-0
Additives	<= 5	Trade secret	Present	Trade secret

Impurities and/or Stabilizing Additives which

Contribute to the Classification

No data available

4. First aid measures

First-aid measures after

inhalation

Remove to fresh air and keep at rest in a position comfortable for

breathing.

Get medical advice/attention if you feel unwell.

First-aid measures after

skin contact

Remove/Take off immediately all contaminated clothing.

If the clothes is in close contact with the skin, do not peel off by force.

Do not peel solidified product off the skin.

Wash with plenty of water.

May cause burns by the heat of polymerization in case of contact with

large amount of adhesive to skin or clothes.

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

Wash contaminated clothing before reuse.

First-aid measures after

eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Solidified glue may irritate like a grain of sand and should be treated

by an ophthalmologist.

In case of eye irritation consult an ophthalmologist.

First-aid measures after

ingestion

Rinse mouth.

Do not induce vomiting.

Get medical advice/attention if you feel unwell.



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Most Important Symptoms/Effects Personal Protection in First Aid and Measures Irritating to eyes, respiratory system and skin. May cause skin irritation / dermatitis / skin burns. Wear protective gloves/eye protection/face protection.

Notes to physician Treat according to symptoms.

5. Fire fighting measures

Suitable extinguishing

media

Dry sand, dry extinguishing powder, carbon dioxide (CO2), foam.

Unsuitable extinguishing

media

Straight stream, water bucket.

Personal protection

(Emergency response)

Wear full chemical protective clothing. Use appropriate respiratory

protection.

Fire hazard Harmful substances may be formed by incomplete combustion and/or

high temperature. Combustible liquid

Only allow access to authorised staff. Specific fire fighting

Eliminate all ignition sources if safe to do so.

Move undamaged containers from immediate hazard area if it can be

done safely.

Pay attention to the wind direction.

6. Accidental release measures

Personal Precautions. Protective Equipment and **Emergency Procedures**

Only allow access to authorised staff.

See protective measures of SECTION 7 and 8.

Environmental precautions Avoid release to the environment

Collect spillage.

Decontamination/Absorption/Sweeping/Vacuming/Neutralization

In case of small leakage

Wipe up with absorbent material (e.g. Cloth).

In case of large leakage

Prevent spread over a wide area (e.g. by containment or oil

barriers).

Methods and Equipment for Containment and

Cleaning up

Stop leak if safe to do so.

Use explosion-proof machinery, apparatus, ventilation facilities,

tools etc.

Prevention Measures for

Secondary Accidents

Eliminate all ignition sources if safe to do so.



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7. Handling and storage

Handling

Technical measures

Precautions for safe

handling

Refer to SECTION 8 "Appropriate engineering controls".

: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep

out of the reach of children.

Do not get in eyes, on skin, or on clothing.
Use personal protective equipment as required.

Because an exothermic reaction may be caused, do not use the protectors which are made of the easily-liquid-absorb-materials.

No open flames, No smoking. Avoid breathing mist, vapours.

Use only outdoors or in a well-ventilated area.

Prevents handling of incompatible substances

or mixtures

Refer to SECTION 10.

Hygiene measures

Do not eat, drink or smoke when using this product.

Avoid contact with skin, eyes and clothes. Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the

workplace.

Wash contaminated clothing before reuse.

Storage

Technical measures : Comply with applicable regulations.

Observe the expiry date.

Proper grounding procedures to avoid static electricity should be

followed.

Incompatible

substances or mixtures

Storage conditions

Refer to SECTION 10.

Protect from moisture.

Keep container tightly closed and store in a cool place. Avoid storage with the Aron Alpha setter, the Aron Alpha

accelerator.

Keep in fireproof place.

Material used in packaging/containers

Stainless steel, Aluminium, Polyethylene, Polypropylene

8. Exposure controls / Personal protection equipment

Japan administration level : Not set
Exposure limits (JSOH) : Not set

Exposure limits (ACGIH) : TWA 0.2 ppm, STEL 1 ppm (Ethyl-2-cyanoacrylate)

Appropriate engineering

controls

: Use explosion-proof electrical, ventilating, lighting equipment.

Provide sufficient washing facilities.

Provide adequate ventilation.

Protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Hand protection : PE (polyethylene) disposable gloves, rubber gloves.



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Eye protection : Wear eye/face protection.

Skin and body protection : Lab apron

Protect eyes, face and skin from liquid splashes.

9. Physical and chemical properties

Physical state : Liquid (Clear liquid)

Colour : Colourless

Odour : Acrid,characteristic pH : No data available Melting point : No data available Freezing point : No data available

Initial boiling point and boiling range : 60 - 62 °C at 667Pa 1) Flash point : 85 °C Cleveland open-cup

Auto-ignition temperature No data available Decomposition temperature No data available 1 Pa at 25°C Vapour pressure 1) 1.05 at 20°C Relative density 1) No data available Density Relative gas density No data available No data available Solubility

Partition coefficient n-octanol /water

(log Kow)

Upper/lower flammability or : No data available

explosive limits

Viscosity, dynamic : $1-5 \text{ mPa} \cdot \text{s}$ at 25°C 1)

Viscosity, kinematic : No data available
Particle size : No data available
Particle size distribution : No data available
Particle shape : No data available
Particle aspect ratio : No data available
Particle specific surface area : No data available

10. Stability and reactivity

Chemical stability : Stable without water(humidity).

May form flammable/explosive vapour-air mixture.

Possibility of hazardous

Contact with water, incompatible materials may cause polymerization.

No data available

reactions

Conditions to avoid : Heat, water, humidity, open flames, over heat, direct sunlight, sparks

Incompatible materials : Water, amines, epoxy constituents

Hazardous : CO, NOx and HCN can generate in case of decomposition.

decomposition products



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11. Toxicological information

Acute toxicity (oral) The calculation applied by the equation was applied. Acute toxicity (dermal) The calculation applied by the equation was applied. Acute toxicity (gas) Not applicable, because of liquid defined by GHS.

No data available Acute toxicity (vapour)

Acute toxicity (dust) Not applicable, because of liquid defined by GHS.

Acute toxicity (mist) No data available Skin corrosion/irritation No data available

Serious eye

The sum of ingredients classified as Eye Category 2 is >= 10%.

damage/irritation

Respiratory sensitization No data available Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity (single exposure) An ingredient classified as Category 3 (respiratory tract irritation) is

>= 20%.

No data available

Specific target organ

toxicity (repeated exposure)

Aspiration hazard No data available No data available Other health hazard

Ethyl-2-cyanoacrylate

LD50 rat: > 5000 mg/kg Acute toxicity (oral) Acute toxicity (dermal) LD50 rabbit : > 2000 mg/kg

Skin corrosion/irritation Category 2

Specific target organ

toxicity (single exposure)

Category 3 (respiratory tract irritation)

12. Ecological information

Ecotoxicity

Hazardous to Aquatic Environment - ShortNo data available

term (acute) Hazard Hazardous to Aquatic

No data available

Environment - Longterm (chronic) Hazard



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Persistence and degradability

Ecology - soil

No data available

Bioaccumulative potential

: No data available: No data available

Hazardous to the ozone

· Any i

layer

: Any ingredient listed in Annexes to the Montreal Protocol is not in the

mixture.

Other

Avoid release to the environmen.

information/references

13. Disposal considerations

Ecology - waste materials : Dispose of contents/container in accordance with

local/regional/national/international regulations.

Consign it to a licensed industrial waste disposal company and

process it.

For waste disposer, notice of risk and hazardousness when dealing

with waste.

Contaminated container

and packaging

Prior to disposal for empty container, remove contents completely.

After cleaning, recycle or dispose of in compliance with current

legislation.

14. Transport information

International Regulations

Regulatory information by sea : Nonhazardous material

UN-No. (IMDG) : Not subject

Marine pollutant : Not applicable

Regulatory information by air : Conform to the provisions of ICAO/IATA.

UN-No. (IATA) : UN3334

Proper Shipping Name (IATA) : Aviation regulated liquid, n.o.s. (Ethyl 2-

Cyanoacrylate)

Class : 9
Packing group : III

Regulations in Japan

Regulatory information by road or rail : Conform to the provisions of the Fire Service

Act, the Poisonous and Deleterious Substances Control Law, the High Pressure Gas Safety Law.

Regulatory information by sea : Nonhazardous material

UN-No. : Not subject
Marine pollutant : Not applicable

Regulatory information by air : Conform to the provisions of the Civil Aeronautics

Law.

UN-No. : UN3334

Proper Shipping Name : Aviation regulated liquid, n.o.s.(Ethyl 2-

Cyanoacrylate)



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Class : 9
Packing group : III

Special transport precautions : Avoid direct sunlight during transport.

Prevent from container broken, corroded and

leakage.

Ensure the prevention of collapse of cargo. Do not transport with food and feedstuffs.

Do not put up heavy things.

15. Regulatory information

Fire Service Law(Japan) : Group 4, Flammable Liquids, Class 3 petroleums, Water-

insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group

4)

Chemical Substances Control

Law(Japan)

General Chemical Substances

Japanese Pollutant Release and Transfer Register Law

(PRTR Law)

Not applicable

Japanese Poisonous and Deleterious Substances Control

Law

Not applicable

Port Regulation Law (JAPAN) : Nonhazardous material Ship Safety Act (JAPAN) : Nonhazardous material

Civil Aeronautics Law(JAPAN) : Miscellaneous dangerous substances & articles(Hazardous

materials notice Appended Table 1 Article 194 of the

Enforcement Regulations)

16. Other information

This data sheet is prepared according to JIS Z 7252:2019 and JIS Z 7253:2019.

Other : LIST OF ABBREVIATION :

JSOH; Japan Society for Occupational Health

ACGIH; American Conference of Governmental Industrial

Hygienists

IMDG ; International Maritime Dangerous Goods IATA ; International Air Transport Association

Data sources : 1) Data measured by TOAGOSEI

2) Data from raw material manufacturer SDS

3) NITE public data

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.