

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

Substance name : ARON AC-1000
Type of product : Film forming agent
Product group : Trade product

Recommended use of the chemical and restrictions on use

Recommended uses and restrictions : This product is for industrial use. Its main application is a Film forming agent. 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.

Company information

Manufacturer

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2. Hazards identification

GHS classification

Health hazards Reproductive toxicity (effects on or via lactation) Additional category

Hazards other than those listed above are "No classification" or "Classification not possible".

Label elements

Hazard statements (GHS JP) : May cause harm to breast-fed children (H362)

Precautionary statements (GHS JP)

Prevention

: Obtain special instructions before use. (P201)
Do not breathe dust, fume, gas, mist, vapours, spray. (P260)
Avoid contact during pregnancy and while nursing. (P263)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Wash hands thoroughly after handling.

Response

: IF exposed or concerned: Get medical advice/attention. (P308+P313)
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

: No statement of GHS.
Keep container tightly closed.

Disposal

: No statement of GHS.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards which do not result in classification

Other hazards which do not result in classification : No data available.

Overview expected state of emergency : No data available.

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture
Generic name : Aqueous dispersion of acrylic copolymer

Name	Concentration (%)	Formula	Reference number in the gazette list		CAS-No.
			CSCL No	ISHL No	
Water	56 – 58	H2O	Not applicable	Not applicable	7732-18-5
Acrylic copolymer	38 – 42	Trade secret	Present	Present	Trade secret
Additives	2 – 5	Trade secret	Present	Present	Trade secret

4. First aid measures

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. Wash with plenty of soap and water. In case of skin irritation, consult a physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.

Personal Protection in First Aid and Measures : Wear protective gloves/eye protection/face protection.

Most Important Symptoms/Effects

Symptoms/effects after skin contact : IF ON SKIN: May cause skin dryness, erythema (reddening), itch, rash.

Notes to physician

Treat according to symptoms (decontamination, vital functions).

5. Fire fighting measures

Suitable extinguishing media : This product is non-flammable. Use an extinguishing agent suitable for the fire nearby.

Unsuitable extinguishing media : No data available

Fire hazard : The product itself does not burn.

Explosion hazard : No data available on direct explosion hazard.

Reactivity in case of fire : Product is not explosive.

Firefighting instructions : Prevent fire-fighting water from entering environment.

Personal protection (Emergency response) : Wear full chemical protective clothing. Use appropriate respiratory protection.

Protection during firefighting : During firefighting, wear chemical protective clothing with air-respirator.

Precautionary measures fire : Keep container closed when not in use.

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Stop leak if safe to do so. Avoid contact with skin and eyes.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.
Do not touch or walk on the spilled product.

For emergency responders

Protective equipment : Avoid breathing dust, fume, gas, mist, vapours, spray.
Emergency procedures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Stop leak if safe to do so. Evacuate unnecessary personnel.
Do not touch spilled material.

Environmental precautions

Collect spillage. Avoid release to the environment.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Stop leak if safe to do so.
Do not touch or walk on the spilled product. Collect spillage.
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. set up weirs with sandbags).
Prevention Measures for Secondary Accidents : Stop leak if safe to do so.

7. Handling and storage

Handling

Technical measures : Refer to SECTION 8 "Appropriate engineering controls".
Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
Use personal protective equipment as required.
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, forearms and face thoroughly after handling.
Local and general ventilation : Refer to SECTION 8 "Appropriate engineering controls".

Storage

Storage conditions : Keep container tightly closed in a cool place.
Avoid long-term storage for prevention from deterioration.
Store at 5 – 40 °C
Technical measures : Do not freeze. Do not store beyond the quality assurance period.
Incompatible materials : Refer to SECTION 10 "Incompatible materials".
Storage area : Store in a well-ventilated place.
Special rules on packaging : Store in a closed container.
Packaging materials : Stainless steel, Glass, Polyethylene, Polypropylene

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

8. Exposure controls / Personal protection equipment

Exposure controls

No information available

Appropriate engineering controls : Provide sufficient washing facilities.

Protective equipment

Respiratory protection : Nothing special.

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

Eye protection : Wear eye/face protection.

Skin and body protection : Protect eyes, face and skin from liquid splashes, Lab coat

9. Physical and chemical properties

Physical state : Liquid

Appearance : Viscous

Color : Milky

Odor : Slightly ester

pH : 7.0 – 9.0

Melting point : No data available

Freezing point : No data available

Boiling point : 100 °C (Water)

Flash point : Non flammable (aqueous non combustible product)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative density : No data available

Density : No data available

Relative gas density : No data available

Solubility : Water: Dispersible

Partition coefficient n-octanol /water (log Kow) : No data available

Explosion limits (vol %) : No data available

Viscosity, dynamic : 5 – 500 mPa·s at 25 °C

Viscosity, kinematic : No data available

Particle characteristics : No data available

10. Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable in normal handling.

Possibility of hazardous reactions : No information available.

Conditions to avoid : No information available.

Incompatible materials : No data available.

Hazardous decomposition products : At fire, harmful degradation products may generate.

11. Toxicological information

Acute toxicity (oral) : Lack of data. Classification not possible

Acute toxicity (dermal) : Lack of data. Classification not possible

Acute toxicity (inhalation) : Not applicable (gas)

Lack of data. Classification not possible (vapor)

Lack of data. Classification not possible (dust, mist)

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

ARON AC-1000

Unknown acute toxicity (GHS JP)	42-44% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 42-44% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 42-44% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Skin corrosion/irritation : No classification

ARON AC-1000

24-hour occlusive human skin patch test	Skin irritation index 0.0
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Serious eye damage/irritation : No classification

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Substitute method for eye irritation test by SkinEthic™ HCE method	MTT(3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-2Htetrazolium bromide) viability > 60%
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Respiratory sensitization : No data available. Classification not possible.

Skin sensitization : No classification

ARON AC-1000

RIPT (Repeat Insult Patch Test)	No cumulative skin irritation during the induction phase and no sensitization during the challenge phase.
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Germ cell mutagenicity : Lack of data. Classification not possible

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Reverse mutation test using bacteria (in vitro)	Negative
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Carcinogenicity : No data available. Classification not possible.

Reproductive toxicity : May cause harm to breast-fed children

Ingredient in Additives (>=0.1%, <3.0%)

Suspected of damaging fertility or the unborn child : Category 2
May cause harm to breast-fed children.

STOT-single exposure : Lack of data. Classification not possible

STOT-repeated exposure : Lack of data. Classification not possible

Aspiration hazard : No data available. Classification not possible

12. Ecological information

Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Lack of data. Classification not possible

Hazardous to the aquatic environment, long-term (chronic) : Lack of data. Classification not possible

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Hazardous to the ozone layer

Effect on the ozone layer : Any ingredient listed in Annexes to the Montreal Protocol is not in the mixture.

Other adverse effects

Avoid release to the environment.

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

13. Disposal considerations

Ecology - waste materials	: Dispose of contents/container in accordance with local/state/federal 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.
Regional legislation (waste)	: Disposal must be done according to official regulations.

14. Transport information

International Regulations

United Nations Recommendations on the Transport of Dangerous Goods(UN RTDG)

UN-No. (UN RTDG)	: Not applicable
Proper Shipping Name (UN RTDG)	: Not applicable
Packing group (UN RTDG)	: Not applicable
Transport hazard class(es) (UN RTDG)	: Not applicable

Transport by sea(IMDG)

UN-No. (IMDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable

Air transport(IATA)

UN-No. (IATA)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Packing group (IATA)	: Not applicable
Transport hazard class(es) (IATA)	: Not applicable

Marine pollutant	: No
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.

Regulations in Japan

Regulatory information by sea	: Conform to the provisions of the Ship Safety Law.
Regulatory information by air	: Conform to the provisions of the Civil Aeronautics Law.
ERG No.	: Not applicable
Other information	: No supplementary information available

15. Regulatory information

National law

Fire Service Law	: Non-flammable goods
Ship Safety Act	: Non hazardous material
Civil Aeronautics Law	: Non hazardous material
Port Regulation Law	: Non hazardous material

Safety Data Sheet

ARON AC-1000

according to JIS Z 7253 : 2019

16. Other information

Data sources : 1) Data measured by TOAGOSEI .
2) Raw material supplier's SDS
3) NITE public data

SDS Reason for revision : This is the 6th edition.

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