

SECTION 1: Identification

1.1. Identification

Product form : Substance
Trade name : ARON NT-Z
CAS-No. : Trade secret
Synonyms : Acrylic copolymer sodium salt

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Viscosity modifier
Use of the substance/mixture : For professional use only
Use of the substance/mixture : This product is for commercial use (industrial use), and its main use is as a viscosity modifier.
Restrictions on use : When using for food / medical use, pesticide use and other special purposes, please confirm the safety in advance by your company before use.
Do not use it for implanting or injecting into the body, or for applications where a part of this product may remain in the body.

1.3. Supplier

Manufacturer

TOAGOSEI CO.,LTD.
Address : 1-14-1, Nishi-shimbashi, Minato-ku, Tokyo, 105-8419 Japan
T : +81-3-3597-7393 - F : +81-3-3597-7353
Website : <https://www.toagosei.co.jp/>

Supplier

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number
JAPAN	Head Office / TOAGOSEI CO., LTD.	Minato-ku, Tokyo	+81-3-3597-7332 (9:00-17:00 (JAPAN))

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Additional notes :

- Avoid breathing dust.

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- Wash hands, forearms and face thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection.
- IF ON SKIN: Remove contaminated clothing and wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Keep container tightly closed in a cool place.
- 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 : Dust explosion hazards.
Risk of lung damage if inhaled in large quantities.

2.4. Unknown acute toxicity (GHS US)

- >=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
- >=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
- >=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Vapor, Dust)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : Polymer
Name : Acrylic copolymer sodium salt

Name	Product identifier	%	GHS US classification
Acrylic copolymer sodium salt *	CAS-No.: Trade Secret	>= 95	Not classified
Water (impurity)	CAS-No.: 7732-18-5	< 5	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of 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.

4.2. Most important symptoms and effects (acute and delayed)

- Expected Symptoms/Effects, Acute and Delayed : IF INHALED:May cause Cough, Sore throat, Dizziness, Somnolence, Headache, Nausea.
IF ON SKIN: May cause skin dryness, erythema (reddening), itch, rash.
IF IN EYES:May cause Erythema (Reddening), Pain.
IF SWALLOWED:May cause Burning sensation, Abdominal pain, Cough, Sore throat, Dizziness, Somnolence, Headache, Nausea.
- Most Important Symptoms/Effects : No additional information available.

4.3. Immediate medical attention and special treatment, if necessary

Treat according to symptoms (decontamination, vital functions).

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Excess water, Dry extinguishing powder, Carbon dioxide (CO2).
Unsuitable extinguishing media : No data available.

5.2. Specific hazards arising from the chemical

Fire hazard : Harmful substances may be formed by incomplete combustion and/or high temperature.
Explosion hazard : Dust explosion hazards.
Reactivity in case of fire : No information available.
Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Prevent fire-fighting water from entering environment. Evacuate area.
Protection during firefighting : Do not attempt to take action without suitable protective equipment
During firefighting, wear chemical protective clothing with air-respirator.
Firefighting instructions : Prohibit entry by anyone other than authorized persons.
Eliminate all ignition sources if safely practicable.
Move containers from hazardous area if it is possible to do so. Pay attention to wind direction.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Provide ventilation system and use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Provide ventilation system and use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Emergency procedures : Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.
In case of small leakage : Remove mechanically and place in a suitable container for disposal.
In case of large leakage : Prevent dust generation.
Cover with a sheet to prevent powder from scattering.
Prevent it from spreading over a wide area (for example, by setting up a weir using sandbags, etc.).
Methods for cleaning up : Immediately remove all ignition sources (no smoking, sparks or flames in the vicinity).
Stop the leak if you can do so safely.
Use explosion-proof machinery, equipment, suction equipment, instruments, etc.
Prevention Measures for Secondary Accidents : Eliminate all ignition sources if safely practicable.
Prevent entry into drains, sewers, basements or confined areas.

6.4. Reference to other sections

No additional information available

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe dust. Do not get in eyes, on skin, or on clothing.
Use only in well-ventilated areas. Use personal protective equipment as required.
Care should also be taken to adhere to shoe soles, etc., because moist powder tends to slip.
Collect the powder spilled on the floor, etc., and wash until slick is eliminated.
Do not dispose of both powder and solution in the drain (sewer) gutter
- 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.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
Use explosion-proof electrical, ventilating, lighting equipment.
- Storage conditions : Keep container tightly closed in a cool place.
- Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
- Incompatible materials : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity
Since it easily absorbs moisture, care should be taken to prevent it from absorbing moisture, especially after opening.
- Storage area : Store in a well-ventilated place. Avoid leaving it outdoors because it is a hygroscopic powder.
- Special rules on packaging : Keep only in original container. Store in a closed container.
- Packaging materials : Stainless steel, Glass, Polyethylene, Polypropylene, Multilayer kraft paper.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dust	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA)	Respirable dust : 5 mg/m ³ , Total dust : 15 mg/m ³

8.2. Appropriate engineering controls

- Appropriate engineering controls : Take precautions against electrostatic discharge and countermeasures against static electricity.
Provide sufficient washing facilities. Provide adequate ventilation.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

PE (polyethylene) disposable gloves, rubber gloves.

Eye protection:

Wear eye/face protection.

Skin and body protection:

Wear personal protection equipment.

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment (a dust mask with an electric fan (with a collection efficiency of 95% or more) is recommended.

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: White ~ light red
Odor	: Odorless ~ slight characteristic odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Combustible solids
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Density / Relative density	: 0.4 – 0.6 g/m3 (bulk density)
Molecular mass	: No data available
Solubility	: Water: practically insoluble (swelling) Organic solvent: practically insoluble.
Partition coefficient n-octanol /water (log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable in normal handling.

10.3. Possibility of hazardous reactions

Danger of dust explosion.

10.4. Conditions to avoid

Light, heat. Direct sunlight. Moisture (hygroscopic).

10.5. Incompatible materials

Oxidizing agent, reducing agent, base.

10.6. Hazardous decomposition products

Thermal decomposition may release harmful gases. Thermal decomposition generates : water, carbon monoxide, carbon dioxide

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : No data available.
Acute toxicity (dermal) : No data available.
Acute toxicity (inhalation) : Not applicable, because of solid defined by GHS. (gas)
No data available. Classification not possible. (vapor)
No data available. Classification not possible. (dust)
Not applicable, because of solid defined by GHS. (mist)

ARON NT-Z

Unknown acute toxicity (GHS US)	>=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) >=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) >=95% of the mixture consists of ingredient(s) of unknown acute toxicity (Vapor, Dust)
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Skin corrosion/irritation : Not classified

ARON NT-Z

Human patch test (primary irritation by single skin contact for 48 hours)	Negative
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Serious eye damage/irritation : Lack of data.

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Eye irritation alternative method (using SkinEthic™ HCE method)	Non-irritant
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Respiratory or skin sensitization : Respiratory sensitization : No data available.
Skin sensitization : Lack of data.

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Repeat Insult Patch Test (RIPT)	Negative
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Germ cell mutagenicity : Lack of data.

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In vitro mutagenicity test (Ames test)	Negative
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Carcinogenicity : No data available.
Reproductive toxicity : No data available.
STOT-single exposure : No data available.
STOT-repeated exposure : No data available.
Aspiration hazard : No data available.
Expected Symptoms/Effects, Acute and Delayed : IF INHALED: May cause Cough, Sore throat, Dizziness, Somnolence, Headache, Nausea.
IF ON SKIN: May cause skin dryness, erythema (reddening), itch, rash.
IF IN EYES: May cause Erythema (Reddening), Pain.
IF SWALLOWED: May cause Burning sensation, Abdominal pain, Cough, Sore throat, Dizziness, Somnolence, Headache, Nausea.
Most Important Symptoms/Effects : No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : No data available.
(Based on the consideration of similar products, it is considered to be less harmful.)
Hazardous to the aquatic environment, long-term (chronic) : No data available.
(Based on the consideration of similar products, it is considered to be less harmful.)

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability

ARON NT-Z

No information available.

12.3. Bioaccumulative potential

ARON NT-Z

No information available.

12.4. Mobility in soil

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No information available.

12.5. Other adverse effects

Effect on the ozone layer : Any ingredient listed in Annexes to the Montreal Protocol is not in the mixture.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information : Handle empty containers with care because residual vapors are flammable.
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. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

ARON NT-Z

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.6. Special precautions for user

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.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available (Bulk transportation is not assumed).

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Acrylic copolymer sodium salt	Trade secret	Not present	-	
Water	7732-18-5	Present	Active	

15.2. International regulations

CANADA

ARON NT-Z

Listed on the Canadian DSL (Domestic Substances List)

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

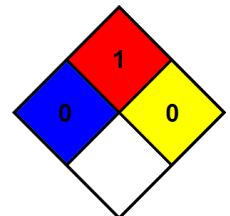
Revision date : 11/10/2023

Data sources : (1) Data measured by TOAGOSEI

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

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.