

# Safety Data Sheet

## 1. Products and Company Information

<b>Product identifier</b>	AV PIPE GU Type High Purity Type : Shavings
<b>SDS No.</b>	No.D-033
<b>Supplier name</b>	Asahi Yukizai Corporation
<b>Address</b>	2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688
<b>Phone number</b>	+81-982-35-9380 (CS & Quality Section EHS & CS/QA Department Valve & Piping Systems Division)
<b>Fax number</b>	+81-982-35-9358 (CS & Quality Section EHS & CS/QA Department Valve & Piping Systems Division)
<b>Emergency phone number</b>	+81-982-35-9380
<b>Recommended use and restrictions on use</b>	High purity PVC+FRP composite piping material for high temperature Electrolysis (purified salt water), others, high-purity chemicals

## 2. Hazards Identification

### GHS classification and label elements of the product

**Physical hazards** This product is a molded product and is not subject to classification.

**Health hazards** Skin corrosion / irritation : Category 2  
Serious eye damage / eye irritation : Category 2B

Items for which the GHS classification result is "Not applicable to classification" or "Cannot classify" are not listed .

### GHS label elements Symbol (GHS JP)

#### Signal word (GHS JP)

**Hazard statement (GHS JP)** H315 : Causes skin irritation  
H320 : Causes eye irritation

### Precautionary statement (GHS JP) (Shavings)

**Safety measures** P260 : Do not breathe dust.  
P264 : Wash hands, forearms and face thoroughly after handling.  
P270 : Do not eat, drink or smoke when using this product.  
P273 : Avoid release to the environment.  
P281 : Use personal protective equipment as required.

**First-aid measures** P304+P340 : If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313 : If there is exposure or concern of exposure, get medical advice/attention.

**Storage** P401 : Store not to leak of the Shavings.

**Disposal** P501 : Dispose of contents/container in accordance with local/national regulation.

**Summary of significant signs and possible emergencies**

## 3. Composition / Information on Ingredients

<b>Single or Mixture</b>	Solid mixture
<b>Product name</b>	AV PIPE SU Type : High Purity Type

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Component	Concentration or concentration range	Chemical formula	Reference Number in Gazetted List in Japan		CAS No.
			CSCL (Chemical Substances Control Law)	Labor Safety and Health Act	
Polyvinyl chloride (PVC)	40 ~ 80%	(CH <sub>2</sub> CHCl) <sub>n</sub>	(6)-66	Che(6)-66	9002-86-2
Tin and its compounds	0.1-1%	-	Non-disclosure	Non-disclosure	Non-disclosure
Titanium(IV) oxide	< 1%	TiO <sub>2</sub>	(1)-558	Non-disclosure	13463-67-7
Glass Fiber	5-30%	-	-	-	65997-17-3
Other organic/inorganic compounds	35%	-	Non-disclosure	Non-disclosure	Non-disclosure

**Industrial Safety and Health Act**

Hazardous and harmful materials requiring notification of name etc.  
(Article 57-2 of the Law, Enforcement Ordinance, Article 18-2, Schedule 9)  
Tin and its compounds (Legally specified number: 322) ( 0.1 and < 1%)  
Titanium oxide (IV) (Legally specified number: 191) ( 0.1 and < 1%)

**4. First-aid Measures****Description of first-aid measures****If inhaled (shavings)**

Move to a place of fresh air and get rest in an easily breathing posture.  
Call a doctor if you feel unwell.

**If on skin (shavings)**

Promptly remove the shavings.  
If you feel unusual, contact a doctor.

**If in eyes (shavings)**

Carefully wash with water for a few minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If you feel unusual, contact a doctor.

**If swallowed (shavings)**

Rinse mouth.  
Contact a doctor immediately.  
Do not force him to vomit.  
If you feel unusual, contact a doctor.

**Most Important Symptoms**

Powder is irritating to the respiratory tract when inhaled in large quantities.  
May cause mild respiratory distress with prolonged or repeated exposure.

**Protection of first responders**

In case of powders, rescuers should wear protective equipment such as protective gloves and glasses.

**Special precautions for physicians**

None in particular

**5. Fire-fighting Measures****Extinguishing media****Suitable extinguishing media**

Water, spray water, fire-extinguishing powder, general fire-extinguishing foam, carbon dioxide, sand.

**Extinguishing media that should not be used**

None in particular

**Specific hazards in case of fire**

It is self-extinguishing and disappears spontaneously when moved away from the flame. However, when it burns, it produces irritating gases.

(The main components of the gas are HCl, CO, and CO<sub>2</sub>).

[Sourced from] Japan PVC Pipe and Fittings Association,  
Vinyl Environmental Council

**Specific fire extinguishing methods**

Prohibit anyone other than related personnel from entering the area around the fire.

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If possible, move away from the source of the fire and extinguish it from upwind.

**Protective equipment for fire-fighters**

Wear appropriate protective clothing (heat-resistant) when extinguishing fires.

## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures****Personal precautions**

If dust is generated by pipe cutting, workers should wear appropriate protective equipment to avoid eye and skin contact and inhalation.

**Environmental precautions****Environmental precautions**

Be careful not to discharge into rivers, etc., so as not to cause environmental impact.  
It must not be discharged into the environment.

**Containment and remediation methods and equipment****Containment methods****Remediation methods and Equipment**

If pipe cutting generates dust, it should be swept up and collected in an empty container for later disposal processing.  
Remove the dust by vacuuming or other methods that do not scatter the dust.

**Prevention of secondary hazards**

If dust is generated by pipe cutting, dispose of it frequently as it may cause slipping hazards if left on the floor.

## 7. Handling and Storage

**Handling (Shavings)****Engineering measures**

Implement equipment measures as described in "**8. Exposure controls/Personal protection**" and wear protective equipment.

Implement local / general ventilation as described in "**8. Exposure controls/Personal protection.**"

**Precautions for safe handling**

Handle the product in such a way that no dust is generated.  
Do not inhale dust. (Cutting dust).  
Wash hands thoroughly after handling.  
Use exhaust ventilation to keep airborne concentrations below exposure limits. (If dust is generated by pipe cutting)  
Use outdoors or in a well-ventilated area.  
Avoid release to the environment (when dust is generated by pipe cutting).

**Contact avoidance**

When dust is generated, take measures against static electricity for equipment and devices.  
See "**10. Stability and Reactivity.**"

**Storage (Shavings)****Engineering measures**

Store in a cool, dark, well-ventilated place away from direct sunlight and avoid fire.

**Safe storage conditions**

Paper bags, flexible containers, silos

## 8. Exposure controls/Personal protection

**Control concentration, allowable concentration**

Component	Control concentration	Allowable concentration (Japan Society for Occupational Health Version 2013)	Allowable concentration (ACGIH) (Version 2006)
Titanium(IV) oxide	-	Inhalant dust : 1mg/m <sup>3</sup> Total dust : 4mg/m <sup>3</sup>	10mg/m <sup>3</sup>

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Tin and its compounds	-	-	TWA 0.1 mg/m <sup>3</sup> STEL 0.2 mg/m <sup>3</sup> (As Tin)
Glass Fiber	3.0 mg/m <sup>3</sup>	Inhalant dust : 2mg/m <sup>3</sup> Total dust : 8mg/m <sup>3</sup>	-

**Permissible concentration [Permissible concentration in case of powder, etc.]**

Permissible concentration in case of powder, etc.	Japan Society for Occupational Health Version 2017	Ministry of Health, Labour and Welfare No. 1024-1 (2017.10.24)	ACGIH (Version 2017) : Polyvinyl chloride (Respirable Fraction)
Poly vinyl chloride (vinyl chloride resin)	Class 3 Dust Inhalable dust : 2mg/m <sup>3</sup> Total dust : 8mg/m <sup>3</sup>	Organic and inorganic powdery substances General control guidelines Inhalable dust : 2mg/m <sup>3</sup>	Inhalable dusts TWA : 1mg/m <sup>3</sup>

**[Working environment measurement]**

Although these substances are not required by law to be measured in the working environment, efforts should be made to confirm and protect the working environment using working environment measurements and risk assessment tools.

**Equipment measures**

Install local exhaust ventilation in work areas where dust is generated.  
Install shower, hand washing, and eye washing facilities near the handling area. (If dust is generated by cutting)

**Protective equipment****Respiratory protection**

Use personal respiratory protective equipment where necessary.

**Hand protection**

Use personal hand protective equipment where necessary.

**Eye protection**

Use personal eye protective equipment where necessary.

**Skin and body protection**

Use personal protective clothing and protective face mask as necessary.

**Sanitary measures**

Wash hands thoroughly after handling.

**Special precautions**

None in particular

**9. Physical and Chemical Properties****Physical state****Appearance**

Solid (Pipe) (Cutting debris and dust are generated during cutting)

**Color**

Green

**Odor**

Almost odorless

**pH**

No data available

**Flash point**

No data available

**Specific gravity**

1.6-1.8 (20 °C)

**Combustion quality**

Self-extinguishing

**Solubility**

No data available

**Spontaneous ignition temperature**

No data available

**10. Stability and Reactivity****Reactivity**

It is stable under normal handling.

**Chemical stability**

It is stable under normal handling.

**Possibility of hazardous reactions**

When burned, it produces irritating gas (HCl).

**Conditions to avoid**

No information

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<b>Incompatible materials</b>	Keep away from fire.
<b>Hazardous decomposition products</b>	When burned, it produces toxic gases (the main components of the gases are HCl, CO, and CO <sub>2</sub> ).

## 11. Toxicological Information

	Under a general environment it is a solid pipe showing no hazardous cases. However, the following items may apply to shavings and fragments that may occur during pipe installation.
<b>Acute toxicity (oral)</b>	Not classifiable due to the lack of data
<b>Acute toxicity (dermal)</b>	Not classifiable due to the lack of data
<b>Acute toxicity (inhalation)</b>	Not classifiable due to the lack of data
<b>Skin corrosion / irritation</b>	Class 2
<b>Serious eye damage / eye irritation</b>	Class 2B
<b>Respiratory sensitization</b>	Not classifiable due to the lack of data
<b>Skin sensitization</b>	Not classifiable due to the lack of data
<b>Germ cell mutagenicity</b>	Not classifiable due to the lack of data
<b>Carcinogenicity</b>	Not classifiable due to the lack of data
<b>Reproductive toxicity</b>	Not classifiable due to the lack of data
<b>Toxicity of specific targets (single exposure)</b>	Not classifiable due to the lack of data
<b>Toxicity of specific targets (repeated exposure)</b>	Not classifiable due to the lack of data
<b>Aspiration hazard</b>	If inhaled or aspirated in large quantities as a powder, the following hazards may occur depending on the particle size.  Aspirable dusts (Dust collected by a sampler with a granulation characteristic of 50% cut of 100 μm) Dusts that settle in the airways and may cause airway irritation.

## 12. Environmental Information

<b>Biotoxicity</b>	No information
<b>Residual and degradability</b>	It does not readily decompose in the general environment.
<b>Bioaccumulative</b>	No information
<b>Mobility in the soil</b>	No information
<b>Hazardous to the ozone layer</b>	Not classifiable due to the lack of data
<b>Other</b>	When disposing of the product, follow the instructions in "13. Disposal Considerations".

## 13. Disposal Considerations

<b>Waste from residues</b>	Follow the related laws and regulations as well as the local government's standards for disposal.  Entrust disposal to an industrial waste disposer licensed by the prefectural
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governor, or to a local public body, if such a body is in charge of disposal.

When consigning the disposal of waste to a contractor, the contractor should be fully informed of the hazards and harmfulness of the waste.

This product is classified as waste plastic (stable industrial waste).

Reference: Incinerate in an incineration facility with exhaust gas treatment equipment or landfill as non-hazardous waste. (Source: Japan Vinyl Chloride Industry and Environment Association, "Safety Information on Vinyl Chloride Resin")

**Contaminated container and package (shavings)** Not applicable

## 14. Transport Information

### International regulations

**Marine Pollutants** No restrictions

**Special transport precautions** No restrictions

### Domestic Regulations

**Land Regulations Information** No restrictions

**Maritime Regulation Information** No restrictions

**Aviation Regulations Information** No restrictions

### Safety measures related to transportation or means of transportation

Follow "7. Handling and Storage "

## 15. Regulatory Information (in Japan) (Shavings)

**Industrial Safety and Health Law** Hazardous and Harmful Materials Requiring Notification (Article 57-2 of the Law; Enforcement Ordinance, Article 18-2, Schedule 9)

**PRTR Law** Not applied

**Waste Management and Public Cleansing Act** Industrial waste (classification for disposal as waste)

**Poisonous and Deleterious Substances Control Act** Not applied

**Fire Service Act** Not applicable or non-hazardous material

**Foreign Exchange and Foreign Trade Act** Not applied

**Ship Safety Act** Not applied

**Civil Aeronautics Act** Not applied

**Act on Port Regulations** Not applied

## 16. Other Information

Material Safety Data Sheets are provided to businesses that handle hazardous chemical products as reference information to ensure safe handling. Business operators who handle such products are requested to use this data sheet as a reference, with the understanding that it is necessary to take appropriate measures according to the actual conditions of individual handling, etc., on their own responsibility.

Therefore, this data sheet itself is not a guarantee of safety.

In addition, this information is subject to revision based on new findings.

Information on content, physical/chemical properties, etc. is not a guaranteed value.

The evaluation of hazards and harmfulness is based on materials and data currently available, but is not exhaustive.

If you have a Material Safety Data Sheet for this product that was previously provided to you, please destroy it.

SDSs may be revised due to legal revisions or product improvements. If the SDS was created or revised more than two years ago, please check that it is the latest version.

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SDS transmission route : In principle, Safety Data Sheets (SDS) are transmitted to end users through the following route.

If you have not obtained the SDS yet, please contact us through the sales channel to request the SDS or to inquire about the latest version.

(Manufacturer      agency      handling business)

## Disclaimer

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