

Safety Data Sheet

Preparation date: Nov 22, 2017

Revision Date: -

1. Products and Company information

Product name	AV PIPE GU-N Type (40A~) : Shavings
Supplier name	Asahi Yukizai Corporation
Address	2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688
Section	Valve & Piping Systems Administration CS & Quality Assurance Group
Phone	+81-982-35-9380
Facsimile	+81-982-35-9358
Recommended use and restrictions for use	Glass fiber reinforced rigid polyvinyl chloride for high temperature alkali

2. Hazard identification

GHS classification	Skin corrosion / irritation : Category 2
Health hazards	Serious eye damage / eye irritation : Category 2B
	Carcinogenicity : Category 1
	Reproductive toxicity : Category 1
	Hazards not specified above are not applicable to classification or unclassifiable.
GHS label elements	
Symbol	—
Signal word	—
Hazard statements	H315 : Causes skin irritation
	H320 : Causes eye irritation
	H350 : May cause cancer
	H360 : May damage fertility or the unborn child
Precautionary statements (Shavings)	
Safety measures	P260 : Do not breathe dust.
	P264 : Wash hand 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.
Emergency measures	P304+P340 : If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P308+P313 : If exposed or concerned, get medical advice/attention.
Storage	P401 : Store not to leak of the Shavings.
Disposal	P501 : Dispose of contents/container should be outsourced to a dedicated waste disposal company licensed by the municipal governor.

3. Composition / information on ingredients

Single or Mixture	Solid mixture
Product name	AV PIPE GU-N Type (40A~)

Component	Concentration or concentration range	Chemical formula	Reference Number in Gazetted List in Japan		CAS No.
			CSCL	Labor Safety and Health Act	
Polyvinyl chloride (PVC)	60-80%	(CH ₂ CHCl) _n	(6)-66	Che(6)-66	9002-86-2
Lead compounds	3%	-	Non-disclosure	Non-disclosure	-
Titanium(IV) oxide	1%	TiO ₂	(1)-558	Non-disclosure	13463-67-7
Glass Fiber	5-30%	-	-	-	65997-17-3
Other organic/inorganic compounds	40%	-	Non-disclosure	Non-disclosure	Non-disclosure

Safety Data Sheet

Preparation date: Nov 22, 2017

Revision Date: -

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)
Lead stearate (Legally specified number: 326) (0.1%)
Titanium(IV) oxide (Legally specified number: 191) (0.1 and < 1%)

4. 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. Do not induce vomiting.
If you feel unusual, contact a doctor.

5. Fire-fighting measures

Extinguishing media

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

Special hazards

It is self-extinguishing and puts out once it is taken out of flame but produces stimulant gas if it burns. (Key ingredients of gas are HCl, CO, and CO₂)
[Sourced from] Japan PVC Pipe and Fittings Association,
Vinyl Environmental Council

Special fire-extinguishing method

Separate the product from the source of fire, if possible and extinguish fire from the windward.

Advice for fire-fighters

Wear appropriate protective clothing (heat resistance) while extinguishing fire.

6. Accidental release measures

Personal precautions

The worker should wear appropriate protective equipment to avoid contact with the eye and skin or inhalation if dust evolves by cutting the pipe.

Environmental precautions

Cautions should be exerted not to affect the environment resulting from release to rivers etc. Never discharge to the environment.

Collection

If pipe cutting produces dust, rake and collect dust in an empty container and dispose of it later.

Prevention of secondary hazards

If pipe cutting produces dust and if dust remains on the floor, there is a danger of slipping: frequent sweeping is required.

7. Handling and storage

Handling (Shavings)**Engineering measures**

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

Local / general ventilation

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

Precautions for safe handling

Do not inhale or swallow the product (shavings).
Wash hands well after handling.
Provide ventilation for emission to keep the airborne concentration below the exposure limit. (If pipe cutting produces dust)
Use the product only outdoor or in an area with good ventilation.
Avoid release to the environment (if pipe cutting produces dust).

Contact avoidance

See "10. Stability and reactivity."

Safety Data Sheet

Storage (Shavings)**Engineering measures**

Avoid fire.

Storage condition

No specific technical countermeasures are required.

8. Exposure controls/personal protection

Control parameters

Component	Control concentration	Allowable concentration (Japan Society for Occupational Health Version 2013)	Allowable concentration (ACGIH) (Version 2006)
Titanium(IV) oxide	-	Inhalant dust : 1mg/m ³ Total dust : 4mg/m ³	10mg/m ³
Lead compounds (As lead)	0.05 mg/m ³ (As lead)	0.1mg/m ³	0.05mg/m ³
Glass Fiber	3.0 mg/m ³	Inhalant dust : 2mg/m ³ Total dust : 8mg/m ³	-

Equipment measures

It is preferable that an eye washer and safety shower be provided for work of storing or handling the product. (If cutting produces dust)
Handling shall be conducted where a general ventilator is installed.
(If cutting produces dust)

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 protection

Use personal protective clothing and protective face mask where necessary.

Sanitary measures

Wash hands thoroughly after handling.

9. Physical and chemical properties

Physical state**Appearance**

Solid (Pipe)

Odor

Almost odorless

pH

No data available

Flash point

No data available

Specific gravity1.6-1.8g/cm³**Combustion quality**

Self-extinguishing

Solubility

No data available

10. Stability and reactivity

Chemical stability

Stable under normal condition.

Possibility of hazardous reactions

No information

Conditions to avoid

No information

Incompatible materials

No information

Hazardous decomposition products

If it burns, it evolves hazardous gas (key ingredients of gas are HCl, CO and CO₂).

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.

Safety Data Sheet

Acute toxicity	
Oral	Not classifiable due to the lack of data
Dermal	Not classifiable due to the lack of data
Inhalation	Not classifiable due to the lack of data
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 2B
Respiratory sensitization or skin sensitization	Not classifiable due to the lack of data
Germ cell mutagenicity	Not classifiable due to the lack of data
Carcinogenicity	Carcinogenicity - Category 1 since concentration of Carcinogenicity - Category 1 for the ingredients of mixture is not lower than 0.1% the cut-off value.
Reproductive toxicity	Reproductive toxicity - Category 1 since concentration of Reproductive toxicity - Category 1 for the ingredients of mixture is not lower than 0.1% the cut-off value.
Specific target organ toxicity (single exposure)	Not classifiable due to the lack of data
Specific target organ toxicity (repeated exposure)	Not classifiable due to the lack of data
Aspiration hazard	No information

12. Ecological information

Environmental hazards	
Hazardous to the aquatic environment (Acute)	Not classifiable due to the lack of data
Hazardous to the aquatic environment (Long-term hazard)	Not classifiable due to the lack of data
Ecotoxicity	No information
Residual/decomposition property	Not easily decomposed under a general environment.
Biological concentration	No information
Mobility in soil	No information
Hazard to the ozone layer	Not classifiable due to the lack of data
Other	Follow "13. Disposal considerations" when disposing of the product.

13. Disposal considerations

Waste from residues	<p>Follow the related laws and regulations as well as the local government's standards for disposal.</p> <p>Outsource disposal to an industrial waste vendor licensed by the prefectural governor or the local government if it disposes of waste.</p> <p>When outsourcing waste disposal, the waste vendor must be fully informed of its hazards and harmful effects before outsourcing.</p> <p>This product is classified as waste plastics (stable industrial waste).</p> <p>Reference: It is incinerated at a furnace with exhaust gas treatment device or buried as non-hazardous waste. [Sourced from] Vinyl Environmental Council "Safety Information on PVC Resin")</p>
Contaminated container and package (shavings)	Not applicable

14. Transport information

International regulations	
Marine regulation information	No restrictions
Aviation regulation information	No restrictions

Safety Data Sheet

Domestic regulations**Land regulation information**

No restrictions

Marine regulation information

No restrictions

Aviation regulation information

No restrictions

Special safety measures

Follow "7. Handling and storage."

15. Regulatory information (in Japan)

Industrial Safety and Health Act

Hazardous and Harmful Materials Requiring Indication (Article 57-1 of the Law; Article 18 of the Enforcement Ordinance)

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

PRTR Law

Class 1 specified chemical substance (No. 305 Lead compounds)

Waste Management and Public Cleansing Act

Industrial waste (classification when it is disposed of 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

Contact information

Specified in "1. Products and Company information."

References

JIS Z 7250-2010 Material Safety Data Sheet (MSDS)

Japan PVC Pipe and Fittings Association website "Product Summary"

Vinyl Environmental Council website "PVC safety information"

Others

AV PIPE GU-N Type (40A~) is a molded product and is therefore not applicable to GHS classification but GHS classification was conducted assuming micro-powder dust that may be produced when it is being handled or cut.

The content described on the Safety Data Sheet for this product is based on the materials and information available at this point in time but we are unable to provide any sort of warranty with respect to hazards, physical and chemical properties.

Precautions and considerations are based on normal handling. If you handle the product in a special manner, full safety measures shall be taken to meet its intended use and usage method.

Please confirm whether your SDS is the latest version if the date of preparation / revision is more than two years ago since SDS will be revised according to revision of the laws or improvement of the product.

SDS delivery route: Safety Data Sheet (SDS) is delivered to end users on the following route.

If you have no SDS or any inquiry about the latest version, please contact us through the distribution route.

[Manufacturer Distributor User]