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Safety Data Sheet

Preparation date: Nov 22, 2017

Revision Date: -

1. Products and Company information

Product name AV PIPE GU Type : 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 useGlass fiber reinforced rigid polyvinyl chloride for high temperature

2. Hazard identification

GHS classification

Health hazards Skin corrosion / irritation: Category 2

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 MixtureSolid mixtureProduct nameAV PIPE GU Type

| Component | Concentration or concentration range | Chemical formula | Reference Number in Gazetted List in Japan | | CAGN |
|-----------------------------------|--------------------------------------|-------------------------------------|---|-----------------------------|----------------|
| | | | CSCL | Labor Safety and Health Act | CAS No. |
| Polyvinyl chloride (PVC) | 60-80% | (CH ₂ CHCl) _n | (6)-66 | Che(6)-66 | 9002-86-2 |
| Lead compounds | 1-3% | - | 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 |

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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) (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 hazardsIt 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 methodSeparate the product from the source of fire, if possible and extinguish fire

from the windward.

Advice for fire-fightersWear 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 precautionsCautions 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."

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Storage (Shavings)

Storage condition

Engineering measures

Avoid fire.

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 : 1 mg/m ³ Total dust : 4 mg/m ³ | 10mg/m^3 |
| Lead compounds (As lead) | 0.05 mg/m^3 (As lead) | 0.1mg/m^3 | 0.05 mg/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 protectionUse personal respiratory protective equipment where necessary.Hand protectionUse personal hand protective equipment where necessary.Eye protectionUse 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
Odor
Almost odorless
pH
No data available

Flash point
No data available

Specific gravity
1.6-1.8g/cm³

Combustion quality
Self-extinguishing

Solubility
No data available

10. Stability and reactivity

Chemical stability Stable under normal condition.

Possibility of hazardous reactionsNo informationConditions to avoidNo informationIncompatible materialsNo information

Hazardous decomposition products If it burns, it evolves hazardous gas (key ingredients of gas are HCl, CO and

 CO_2).

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.

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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 / irritationCategory 2Serious eye damage / eye irritationCategory 2B

Respiratory sensitization or skin sensitizationNot classifiable due to the lack of data **Germ cell mutagenicity**Not classifiable due to the lack of data

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 propertyNot easily decomposed under a general environment.

Biological concentrationNo informationMobility in soilNo 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 Follow the related laws and regulations as well as the local government's

standards for disposal.

Outsource disposal to an industrial waste vendor licensed by the prefectural

governor or the local government if it disposes of waste.

When outsourcing waste disposal, the waste vendor must be fully informed

of its hazards and harmful effects before outsourcing.

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

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")

Contaminated container and package (shavings) Not applicable

14. Transport information

International regulations

Marine regulation informationNo restrictionsAviation regulation informationNo restrictions

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Domestic regulations

Land regulation informationNo restrictionsMarine regulation informationNo restrictionsAviation regulation informationNo 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

Not applied

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 Type 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]