#### ASAHI YUKIZAI CORPORATION

No.D-015e-00

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Preparation date: Nov 22, 2017 Revision Date: -

# Safety Data Sheet

1. Products and Company information

Product name

High Impact poly vinyl chloride pipes for water supply (HI-PVC)

: Shavings (JIS K 6742, AS20)

Supplier name Asahi Yukizai Corporation

Address2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688SectionValve & Piping Systems Administration CS & Quality Assurance Group

**Phone** +81-982-35-9380 **Facsimile** +81-982-35-9358

**Recommended use and restrictions for use** Pipes for transfer of waterworks.

### 2. Hazard identification

**GHS** classification

**Physical and Chemica hazards Health hazards**Not classifiable
Not classifiable

**GHS** label elements

SymbolNot classifiableSignal wordNot classifiableHazard statementsNo information

**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** Unplasticized poly vinyl chloride pipes for water supply

Commonant	Concentration or concentration range	Chemical formula	Reference Number in Gazetted List in Japan		CAGN
Component			CSCL	Labor Safety and Health Act	CAS No.
Polyvinyl chloride (PVC)	90-95%	(CH <sub>2</sub> CHCl) <sub>n</sub>	(6)-66	Che(6)-66	9002-86-2
MBS polymers	5-10%	$(C_8H_8.C_5H_8O_2.C_4H_6.C_3H_3N)_x$	-	-	9010-94-0
Other organic/inorganic compounds	< 5%	Non-disclosure	Non-disclosure	Non-disclosure	Non-disclosure

Industrial Safety and Health Act

4. First-aid measures

**If inhaled (shavings)**Move to a place of fresh air and get rest in an easily breathing posture.

Not applied

Call a doctor if you feel unwell.

**If on skin (shavings)** Promptly remove the shavings.

If you feel unusual, contact a doctor.

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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 CO<sub>2</sub>)

[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."

Storage (Shavings)

**Engineering measures** Avoid fire.

**Storage condition** No specific technical countermeasures are required.

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# 8. Exposure controls/personal protection

Control parameters

Component	Control concentration	Allowable concentration (Japan Society for Occupational Health)	Allowable concentration (ACGIH)	
-	-	-	-	

**Equipment measures** 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. Use personal hand protective equipment where necessary. **Hand protection** Use personal eye protective equipment where necessary. **Eye protection** 

**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) Color Gray

Odor Almost odorless pН No data available

454°C [Sourced from] "Plastic Data Handbook" edited by Kimimasa Ito, Flash point

Kogyo Chosakai Publishing Co., Ltd. (1980)

Approx. 1.4g/cm<sup>3</sup> (20 °C) Specific gravity **Combustion quality** Self-extinguishing

Not soluble in water but soluble in ketone and THF. **Solubility** 

# 10. Stability and reactivity

Chemical stability Stable under normal condition.

No information Possibility of hazardous reactions 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

 $CO_2$ ).

## 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.

**Acute toxicity** 

Oral Not classifiable due to the lack of data **Dermal** Not classifiable due to the lack of data Not classifiable due to the lack of data Inhalation Skin corrosion / irritation Not classifiable due to the lack of data Not classifiable due to the lack of data Serious eye damage / eye irritation Respiratory sensitization or skin sensitization Not classifiable due to the lack of data Not classifiable due to the lack of data Germ cell mutagenicity Not classifiable due to the lack of data Carcinogenicity

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Reproductive toxicity

Not classifiable due to the lack of data

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

Not classifiable due to the lack of data

# 12. Ecological information

**Environmental hazards** 

Hazardous to the aquatic environment

(Acute)

Hazardous to the aquatic environment

(Long-term hazard)

Not classifiable due to the lack of data

Not classifiable due to the lack of data

**Ecotoxicity** No information

**Residual/decomposition property**Not easily decomposed under a general environment.

Biological concentrationNo informationMobility in soilNo information

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

**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**Not applied

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

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Ship Safety ActNot appliedCivil Aeronautics ActNot appliedAct on Port RegulationsNot 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"

"Plastic Data Handbook" edited by Kimimasa Ito, Kogyo Chosakai

Publishing Co., Ltd. (1980)

Unplasticized poly vinyl chloride pipes for water supply 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 discard the previous material safety data sheet of the product, if any.

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]

Others