

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

1. Products and Company Information

Product identifier	Unplasticized poly vinyl chloride pipes for water supply(U-PVC) : Shavings (JIS K 6742, AS20)
SDS No.	No.D-020
Supplier name	Asahi Yukizai Corporation
Address	2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688
Phone number	+81-982-35-9380 (CS & Quality Section EHS & CS/QA Department Valve & Piping Systems Division)
Fax number	+81-982-35-9358 (CS & Quality Section EHS & CS/QA Department Valve & Piping Systems Division)
Emergency phone number	+81-982-35-9380
Recommended use and restrictions on use	Pipes for transfer of waterworks.

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 Not classifiable

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)

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

Single or Mixture Solid mixture

Product name Unplasticized poly vinyl chloride pipes for water supply

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

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)	90-95%	(CH ₂ CHCl) _n	(6)-66	Che(6)-66	9002-86-2
Zinc oxide	< 1%	ZnO	(1)-561	-	1314-13-2
Carbon black	< 1%	-	(5)-5222	-	1333-86-4
Titanium(IV) oxide	< 1%	TiO ₂	(1)-558	-	13463-67-7
Other organic/inorganic compounds	< 10%	Non-disclosure	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)

Zinc oxide (Legally specified number: 188) (0.1 and < 1%)

Carbon black (Legally specified number: 130) (0.1 and < 1%)

Titanium(IV) oxide (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 CO₂).

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

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

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

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

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)
Carbon black	2.9mg/m ³	Inhalant dust : 1mg/m ³ Total dust : 4mg/m ³	3.5mg/m ³
Zinc oxide	-	Inhalant dust : 1mg/m ³ Total dust : 4mg/m ³	TWA : 2mg/m ³ STEL : 10mg/m ³
Titanium(IV) oxide	-	Inhalant dust : 1mg/m ³ Total dust : 4mg/m ³	10mg/m ³

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 ³ Total dust : 8mg/m ³	Organic and inorganic powdery substances General control guidelines Inhalable dust : 2mg/m ³	Inhalable dusts TWA : 1mg/m ³

[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

Gray

Odor

Almost odorless

pH

No data available

Flash point

391°C

Specific gravity

Approx. 1.4 (20 °C)

Combustion quality (Combustible)

Self-extinguishing

(It is a self-digestible resin with an oxygen index of about 45.)

Solubility

Insoluble in water. Insoluble in most organic solvents, but soluble in ketones and THF.

Spontaneous ignition temperature

Ignition temperature (454°C)

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

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
Incompatible materials	Keep away from fire.
Hazardous decomposition products	When burned, it produces toxic gases (the main components of the gases 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
Acute toxicity (dermal)	Not classifiable due to the lack of data
Acute toxicity (inhalation)	Not classifiable due to the lack of data
Skin corrosion / irritation	Not classifiable due to the lack of data
Serious eye damage / eye irritation	Not classifiable due to the lack of data
Respiratory sensitization	Not classifiable due to the lack of data
Skin sensitization	Not classifiable due to the lack of data
Germ cell mutagenicity	Not classifiable due to the lack of data
Carcinogenicity	Not classifiable due to the lack of data
Reproductive toxicity	Not classifiable due to the lack of data
Toxicity of specific targets (single exposure)	Not classifiable due to the lack of data
Toxicity of specific targets (repeated exposure)	Not classifiable due to the lack of data
Aspiration hazard	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

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

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

Considerations "

13. Disposal Considerations

Recyclable tubes

In consideration of the environment, if it is possible to recycle, ask a recycling company to do so.

Waste from residues

For pipes that cannot be recycled, comply with relevant laws and regulations and local government standards.

Entrust disposal to an industrial waste disposer licensed by the prefectural 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

Safety Data Sheet

Conforms to JIS Z 7253 : 2019

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.

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

The information contained in this sheet is based on reliable information, but no warranty, express or implied, is given as to the accuracy of the information. Because the conditions under which the product is handled, used, stored, or disposed of are beyond our control and may not be known to us, we assume no responsibility, direct or indirect, for any loss, damage, or expense resulting from the handling, use, storage, or disposal of the product. This sheet should be used only with this product. If this product is used as an ingredient in other products, the information contained in this sheet may not apply.