Safety Data Sheet

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1. Products and Company Information

Product identifier Unplasticized poly vinyl chloride pipe: Shavings (JIS K 6741)

No.D-010 SDS No.

Supplier name Asahi Yukizai Corporation

2-5955, Nakanose-cho Nobeoka-city Miyazaki-pref. Japan 882-8688 Address

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

> Valve & Piping Systems Division) EHS & CS/QA Department

Emergency phone number +81-982-35-9380

Recommended use and restrictions on use Pipes for transporting liquids such as sewage, agricultural water,

and chemicals etc.

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 Carcinogenicity: Category 1

Reproductive toxicity: Category 1

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) H350: May cause cancer

H360: May damage fertility or the unborn child

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.

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

regulation.

Summary of significant signs and possible emergencies

3. Composition / Information on Ingredients

Single or Mixture Solid mixture

Product name Unplasticized poly vinyl chloride pipe

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			Reference Number in Gazetted List in Japan		
Component	Concentration or concentration range	Chemical formula	CSCL (Chemical Substances Control Law)	Labor Safety and Health Act	CAS No.
Polyvinyl chloride (PVC)	90-95%	(CH ₂ CHCl) _n	(6)-66	Che(6)-66	9002-86-2
Lead compounds	1-5%	1	Non-disclosure	Non-disclosure	-
Titanium(IV) oxide	< 1%	TiO ₂	(1)-558	Non-disclosure	13463-67-7
Carbon black	< 1%	-	Non-disclosure	Non-disclosure	1333-86-4
Other organic/inorganic compounds	1-5%	-	Non-disclosure	Non-disclosure	Non-disclosure

Industrial Safety and Health Act

Hazardous and harmful materials requiring labeling of names, etc. (Article 57-1 of the Law; Article 18 of the Enforcement Ordinance)

Lead stearate (Legally specified number: 326) (0.1%)

Lead and its inorganic compounds

(Legally specified number: 411) (0.1%)

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%)

Lead and its inorganic compounds

(Legally specified number: 411) (0.1%)

Titanium oxide (IV)

(Legally specified number: 191) (0.1 and <1%)

Carbon black (Legally specified number: 130) (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 physiciansNone in particular

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media

Water, spray water, fire-extinguishing powder, general fire-extinguishing

foam, carbon dioxide, sand.

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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

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

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

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 If pipe cutting generates dust, it should be swept up and collected in an

Remediation methods and Equipment empty container for later disposal processing.

Remove the dust by vacuuming or other methods that do not scatter the dust.

If dust is generated by pipe cutting, dispose of it frequently as it may cause Prevention of secondary hazards

slipping hazards if left on the floor.

7. Handling and Storage

Handling (Shavings)

Implement equipment measures as described in "8. Exposure **Engineering measures**

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)

Store in a cool, dark, well-ventilated place away from direct sunlight and **Engineering measures**

avoid fire.

Safe storage conditions Paper bags, flexible containers, silos **Safety Data Sheet**

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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/m³ Total dust : 4mg/m³	3.5mg/m^3
Titanium(IV) oxide	-	Inhalant dust : 1mg/m³ Total dust : 4mg/m³	10mg/m ³
Lead compounds (As lead)	0.05 mg/m ³ (As lead)	0.1mg/m^3	0.05 mg/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/m³ Total dust: 8mg/m³		Organic and inorganic powdery substances General control guidelines Inhalable dust: 2mg/m³	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 protectionUse 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

Combustion quality

Approx. 1.4 (20 °C)

Self-extinguishing

(Combustible) (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)

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10. Stability and Reactivity

Reactivity It is stable under normal handling. It is stable under normal handling. Chemical stability

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).

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 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 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

Not classifiable due to the lack of data Germ cell mutagenicity

Carcinogenicity Class 1 because it contains more than 0.1% of the components of mixtures

that fall under Class 1, the cutoff value.

Class 1 because it contains more than 0.1% of the components of mixtures Reproductive toxicity

that fall under Class 1, the cutoff value.

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

If inhaled or aspirated in large quantities as a powder, the following hazards **Aspiration hazard**

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

Not classifiable due to the lack of data Hazardous to the ozone layer

Other When disposing of the product, follow the instructions in "13. Disposal

Considerations ".

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13. Disposal Considerations

Recyclable tubesIn 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

4. Transport Information

International regulations

Marine PollutantsNo restrictionsSpecial transport precautionsNo restrictions

Domestic Regulations

Land Regulations InformationNo restrictionsMaritime Regulation InformationNo restrictionsAviation Regulations InformationNo 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 Low Working Environment Evaluation Standards (Article 65, Paragraph 1 of

the Law)

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)

Lead compounds (Appended Table 4 of the Enforcement Order, Article 1, Item 4 of the Ordinance on the Prevention of Lead Poisoning, Ministry of

Labor Notification No. 91 of 1972)

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

Water Pollution Control Law Harmful substances (Article 2 of the Law, Article 2 of the Enforcement

Order, Article 1 of the Ministerial Ordinance for Establishing Drainage

Standards)

Air Pollution Control Law Substances subject to emission control (hazardous substances) (Article 2,

Paragraph 1, Item 3 of the Law, Article 1 of the Cabinet Order)

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

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Soil Contamination Countermeasures Act Specified hazardous substances (Article 2, Paragraph 1 of the Act, Article 1

of the Enforcement Order)

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 Not applied **Civil Aeronautics Act Act on Port Regulations** Not applied

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 handling business) agency

Disclaimer

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