

## PVC

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Substance name: High Impact poly vinyl chloride pipes for water supply (HI-PVC)  
: Shavings (JIS K 6742, AS20)

REACH Reg. No.: N/A

CAS No.: 9002-86-2

EC No.: N/A

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Pipes for transfer of waterworks.

Uses advised against: Not available.

#### 1.3 Details of the supplier of the SDS

Company name (Manufacturer): Tianjin Yuanlong Chemical Industry Co., Ltd

Address: No.10 Hanbei Road, Hangu District, Binhai New Area, Tianjin, China

Postcode: 300480

E-mail: info@yuanlongchem.com

Telephone: +86-22-23528561

Fax: +86-22-23523959

Emergency telephone number: +86-22-23528561

### Section 2: Composition/information on ingredients

#### 2.1 Substance information

Substance name	Synonym	CAS No.	EC No.	Molecular formula	Concentration
Poly Vinyl Chloride	PVC	9002-86-2		CH <sub>2</sub> Cl	90-95%

Remark: The rest unspecified ingredients are impurities, and they are not hazard.

## Section 3: Hazards identification

### 3.1 Classification of the substance or mixture

Physical and Chemical hazards	Not classifiable
Health hazards	Not classifiable

### 3.2 Label elements

Symbol:	Not classifiable
Signal word:	Not classifiable
Hazard statements:	No information
Precautionary statements:	
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.
Supplemental Hazard information (EUH):	No information available.

### 3.3 Other hazards

No information available.

## Section 4: First aid measures

### 4.1 Description of first aid measures

General notes: In all cases of doubt, or when symptoms persist, seek medical attention.

Following inhalation:

Move to a place of fresh air and get rest in an easily breathing posture.

Call a doctor if you feel unwell.

Following skin contact:

Promptly remove the shavings.

If you feel unusual, contact a doctor.

Following eye contact:

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.

Following ingestion:

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

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## Section 5: Fire-fighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for fire-fighters

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

### 5.4 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

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 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.

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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

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."

### 7.2 Conditions for safe storage, including any incompatibilities

Engineering measures: Avoid fire.

Storage condition: No specific technical countermeasures are required.

### 7.3 Specific end use(s)

Not available.

## Section 8 : Exposure controls/personal protection

### 8.1 Control parameters

Component	Control concentration	Allowable concentration (Japan Society for Occupational Health)	Allowable concentration (ACGIH)
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### 8.2 Exposure controls

Appropriate engineering controls:

Handling shall be conducted where a general ventilator is installed. (If cutting produces dust)

Personal protective equipment:

Eye and face protection: Use personal eye protective equipment where necessary.

Skin protection: Use personal protective clothing and protective face mask where necessary.

Hand protection: Use personal hand protective equipment where necessary.

## Section 9: Physical and chemical properties

### Physical state

Appearance	Solid (Pipe)
Color	Gray
Odor	Almost odorless
PH	No data available
Flash point	454°C [Sourced from] "Plastic Data Handbook" edited by Kimimasa Ito, Kogyo Chosakai Publishing Co., Ltd. (1980)
Specific gravity	Approx. 1.4g/cm <sup>3</sup> (20 °C)
Combustion quality	Self-extinguishing
Solubility	Not soluble in water but soluble in ketone and THF.

## Section 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 CO <sub>2</sub> ).

## Section 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
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 or 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
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

## Section 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
Other	Follow "13. Disposal considerations" when disposing of the product.

## Section 13: Disposal considerations

### 13.1 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

## Section 14: Transport information

### 14.1 International regulations

Marine regulation information	No restrictions
Aviation regulation information	No restrictions

### 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."

## Section 15: Regulatory information

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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 applicable
Ship Safety Act	Not applied
Civil Aeronautics Act	Not applied
Act on Port Regulations	Not applied

## Section 16: Other information

### 16.1 Contact information:

Specified in "1.Products and Company information."

## 16.2 References

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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"

Vinyl Environmental Council website "PVC safety information"

## 16.3 Others

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]