Prepared on: April,1st 2024

#### **SAFETY DATA SHEET**

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Unplasticized polyvinyl chloride pipe (VP, VU): Cutting chips

Chemical product name: Mixture whose main component is polyvinyl chloride

Company name: SEKISUI CHEMICAL CO., LTD.

Address: 2-10-4 Toranomon, Minato-ku, Tokyo, 105-8566, Japan

Responsible Dept.: Pipe System Division

Urban Infrastructure and Environmental Products Company

Tel: 03-6748-6492 Fax: 03-6748-6564

Recommended use and use For the pipes transporting general fluid.

restriction: Do not use the product for any other purpose.

### 2. HAZARDS IDENTIFICATION

Physical and chemical Flammable solid Out of category hazards: Pyrophoric solid Out of category

Substances and mixture which, in contact

Out of category

with water, emit flammable gases

Health hazards:

Environmental hazards:

GHS label element symbol:

Signal word:

Unclassifiable

Unclassifiable

Unclassifiable

No data available

Cautions (Cutting chips): Avoid inhalation of cutting chips, dust and the like.

Wear specified personal protective equipment.

After handling, thoroughly wash hands.

Do not eat/drink and smoke at the place where dust generation is

observed.

Avoid discharge to the environment.

First aid measures: IF INHALED, remove the victims to fresh air and keep at rest in a

position comfortable for breathing.

In the case of exposure or possible exposure, get medical

advice/attention. When feeling sick, get medical advice/attention.

Storage: Store the product while taking measures to prevent leakage of the

cutting chips.

Disposal: Dispose of the content and containers by entrusting the disposal to

a professional waste disposal contractor licensed by the local

governor.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Classification of single Mixture

component or mixture:

Components: Content

Polyvinyl chloride 92–95% Lead compounds 1.0–2.0% Others 4–7%

### 4. FIRST AID MEASURES

IF INHALED (Cutting chips): - Remove the victims to fresh air and keep at rest in a position

comfortable for breathing.

- Get medical advice/attention, if necessary.

IF ON SKIN (Cutting chips): - Wash the skin promptly.

- Get medical advice/attention, if necessary.

IF IN EYES (Cutting chips): - Wash carefully with water for several minutes.

- Get medical advice/attention, if necessary.

IF SWALLOWED (Cutting - Rinse mouth.

chips):

- Get medical advice/attention, if necessary.

### 5. FIRE FIGHTING MEASURES

Fire extinguishing media: - Small fire: Dry chemical powder, carbon dioxide, water

- Large fire: Water, water spraying, normal foam extinguisher

Specific danger/hazards: There is a possible danger of generating irritating, poisonous or

corrosive gases at a some kind of fire.

Specific firefighting method: - Remove the containers from the fire area, if it is not so

dangerous.

- In the case of huge fire, use unmanned hose holder or monitor

nozzles for firefighting.

If such work is not possible, evacuate from the area and let the

fire burned out.

Protection of the firefighters: During the firefighting work, wear air respirator and chemical

protective clothing.

# 6. ACCIDENTAL RELEASE MEASURES

Cautions for personnel: When dust is generated by polyvinyl chloride pipe cutting, wear

proper protective equipment to prevent exposure to eyes/skin and

inhalation. (Refer to the description of "8. EXPOSURE

CONTROL/PERSONAL PROTECTION.")

Cautions to the environment: Be careful not to cause environmental effect by discharging to the

rivers and the like. Never discharge to the environment.

Recovery: When dust is generated by cutting the polyvinyl chloride pipes,

sweep and recover them into a vacant container, and dispose of

them later.

Prevention of secondary

disaster:

When dust is generated by cutting polyvinyl chloride pipes, well clean the floor frequently to prevent occurrence of slippery floor

surface.

### 7. HANDLING AND STORAGE

Handling (Cutting chips)

Engineering measures: - Take engineering measures described in the "8. EXPOSURE

CONTROL/PERSONAL PROTECTION," and wear protective

equipment.

Local ventilation/general

ventilation:

- Local ventilation and general ventilation shall be done according to the description of "8. EXPOSURE

CONTROL/PERSONAL PROTECTION."

Cautions for safe

handling:

- Do not inhale or swallow.(Cutting chips)

- Conduct exhaust ventilation to keep the concentration in air equal to or lower than the exposure limit. (When dust is

generated by cutting the pipes.)

- Wash hands well, after handling.

- Use only outdoors or in a well ventilated area.

- Avoid discharge to the environment. (When dust is generated

- Refer to the description of "10. STABILITY AND REACTIVITY."

by cutting.)

Avoid contact: Storage (Cutting chips)

Engineering measures: Keep fire away.

Storage conditions:

No specific engineering measure is necessary.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

#### Control concentration

		Permissible concentration	
	Control	(permissible exposure limit, biological exposure index)	
со	concentration	Japan Society for Occupational Health (2016 edition)	ACGIH (2016 edition)
Lead compound	0.05 mg/m <sup>3</sup> (as Pb)	0.03 mg/m³ (as Pb)	TWA 0.05 mg/m3 (as Pb)

Engineering measures:

- Install eye-washing equipment and safety shower for the work of storing and handling the product. (When dust is generated by cutting the pipes.)
- Handling shall be done in an area with a general ventilation equipment. (When dust is generated by cutting.)
- When dust is generated in a process of high temperature handling, install ventilation equipment to keep the air polluting substance concentration equal to or lower than the control

concentration permissible exposure limit.

Protective equipment

Respiratory protective

equipment:

- Use personal respiratory equipment, if required.

- In the case of insufficient ventilation, wear proper respiratory protective equipment. (When dust is generated by cutting the

Wear personal protective clothing and protective face shield, if

pipes.)

Hand protective

equipment:

Wear personal hand protective equipment, if required.

Eye protective equipment:

Wear personal eye protective equipment, if required.

Skin and body protective

required.

equipment:

Wash hands well after handling.

Hygiene measures:

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical Solid

property:

State: Molded polyvinyl chloride pipes (At cutting, cutting chips and dust

are generated.)

Color: Gray and other colors

Odor: No odor

pH: No data available
Melting point/freezing point: No data available
Boiling point, initial boiling Not applicable

point and boiling range:

Flash point: 391°C

Combustibility or explosion

limit:

No data available

Vapor pressure: No data available
Vapor density (air = 1): No data available
Specific gravity (density): 1.43 g/cm<sup>3</sup>

Solubility: No data available n-Octanol/water partition No data available

coefficient:

Spontaneous ignition 454°C

temperature:

Odor threshold value: No data available Evaporation rate No data available

(Butyl acetate = 1):

Combustibility (Solid, gas): No data available Viscosity: No data available

### 10. STABILITY AND REACTIVITY

Stability: Stable under the normal conditions.

Possibility of hazardous

reaction:

No information available

Conditions to avoid: No information available Incompatible hazardous No information available

substances:

Dangerous decomposition Combustion causes generation of carbon monoxide, carbon

product: dioxide, hydrogen chloride, lead oxide and the like.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral: Unclassifiable because of insufficient data

> Dermal: Unclassifiable because of insufficient data Inhalation: Unclassifiable because of insufficient data

Skin corrosion/irritation: Unclassifiable because of insufficient data Serious eye damage/irritation: Unclassifiable because of insufficient data

Respiratory sensitization: Unclassifiable because of no data

Unclassifiable because of insufficient data Skin sensitization: Germ cell mutagenicity: Unclassifiable because of insufficient data Carcinogenicity: Unclassifiable because of insufficient data Unclassifiable because of insufficient data Reproductive toxicity: Unclassifiable because of insufficient data.

Specific target organ systemic toxicity (single exposure):

Specific target organ systemic

toxicity (repeated exposure):

Aspiration respiratory hazards: Unclassifiable because of no data

### 12. ECOLOGICAL INFORMATION

Hazardous to aquatic Unclassifiable because of insufficient data

environment (acute): Hazardous to aquatic

environment (chronic):

Unclassifiable because of insufficient data

Unclassifiable because of insufficient data

### 13. DISPOSAL CONSIDERATION

Residual waste - At the disposal, abide by the relevant laws/regulations and the

standards of the local government.

- Dispose of it by entrusting the disposal to an industrial waste disposal contractor licensed by the prefectural governor or the local government itself in the case it is conducting the disposal by

itself.

- When entrusting the disposal of the waste to a contractor, the danger/hazards should be clearly notified to them in advance.

Contaminated containers and packaging (Cutting chips):

Not applicable

# 14. TRANSPORT INFORMATION

International regulations Marine transport control: Non-hazardous material

> Non-hazardous material Air transport control:

Domestic regulations Land transport control: Not applicable

> Marine transport control: Non-hazardous material Non-hazardous material Air transport control:

Specific safety measurement (Cutting chips): - Keep fire away.

> - Avoid scattering the cutting chips caused by container damages (the container for

cutting chips) and the like.

#### 15. REGULATORY INFORMATION

Industrial Safety and Health Law:

- Hazardous substances whose name shall be indicated (labeled). (Industrial Safety and Health Law, Article 57-2, Enforcement Ordinance Article 18-2, Appended Table 9)
- Hazardous substances whose name shall be indicated (labeled). (Industrial Safety and Health Law, Article 57-1, Enforcement Ordinance Article 18) (Lead compound)
- Lead compound (Enforcement Ordinance Appended Table 4, Ordinance on Prevention of Lead Poisoning, Article 1-4, Cabinet Ordinance No. 91, 1972)

Law for PRTR (Pollutant Release and Transfer Register) and Promotion of Chemical Management (PRTR Law):

Water Pollution Control Law:

Class 1 Designated Chemical Substance, Specific class 1, Designated Chemical Substance (Law Article 2-2, Enforcement Ordinance Article 1, Appended Table 1, Enforcement Ordinance Article 4) (Old substance name: Lead and Lead compound)

Air Pollution Control Law:

Soil Contamination Countermeasure Law: Waste Disposal and Public Cleansing Law:

Labor Standards Law:

Hazardous substance (Law Article 2, Enforcement Ordinance Article 2, Ministerial Ordinance specifying the Waste Water Standards Article 1) (Lead and Lead compound)
Hazardous materials (Law Article 2-1-3, Enforcement Ordinance Article 1) (Lead and Lead compound)
Specific Hazardous Substances (Law Article 2-1, Enforcement Ordinance Article 1) (Lead and Lead compound)
Specially-controlled industrial waste (Law Article 2-5, Enforcement Ordinance Article 2-4) (Specially-controlled industrial waste containing lead and lead compound)
Disease-causing chemical substances (Law Article 75-2, Enforcement Ordinance Article 35, Appended Table 1-2 No. 4-1, Ministerial Order No. 36, 1978) (Lead and Lead compound)

# 16. OTHER INFORMATION

References:

Cautions

NITE GHS Classification Data Notification Product MSDSs

- GHS classification is not applicable to the unplasticized polyvinyl chloride pipes, because they are molded products.
   However, the GHS classification is applied, supposing the fine dust particles are generated during handling like cutting.
- This information can be revised by the new knowledges and test data information.
- The descriptions herein are prepared based on the generallyavailable information and our in-house information, however, they do not cover all the information available at present concerning the chemical and technology. Therefore, we do not intend to guarantee anything concerning the matter.
- Cautions are for normal handling. For special handling, it is the obligation of each user of the product to provide adequate safety measures suited for the applications and usages.