

SAFETY DATA SHEET

1. Product and company (manufacturer) identification

Product:	Eslotight Primer
Manufacturer:	Sekisui Chemical Co., Ltd.
Address:	Toranomon 2-10-4, Minato-ku, Tokyo 105-8566
Responsible section:	Urban Infrastructure & Environmental Products Company Infrastructure and Building Pipe Systems Division
Telephone:	+81-3-6748-6492
Urgent telephone:	+81-3-6748-6492
Fax:	+81-3-6748-6564
Urgent contact:	Same as above
Application & restriction	Bonding agent for polyvinyl chloride piping system for sewers. Other applications are prohibited.
Document number:	Es-P

2. Hazards identification

GHS Classification

Physicochemical hazards:	Explosives	Classification not possible
	Flammable gases	Not classified
	Aerosols	Not classified
	Oxidizing gases	Not classified
	Gases under pressure	Not classified
	Flammable liquids	Category 2
	Flammable solids	Not classified
	Self-active chemicals	Not classified
	Pyrophoric liquids	Classification not possible
	Pyrophoric solids	Not classified
	Self-heating chemicals	Classification not possible
	Chemicals which, in contact with water, emit flammable gases	Classification not possible
	Oxidizing liquids	Classification not possible
	Oxidizing solids	Not classified
	Organic peroxides	Classification not possible
	Substances corrosive to metals	Classification not possible
	Desensitized explosives	Not classified
Health hazards:	Acute toxicity (oral)	Classification not possible
	Acute toxicity (dermal)	Classification not possible
	Acute toxicity (inhalation: gas)	Not classified
	Acute toxicity (inhalation: vapor)	Category 4
	Acute toxicity (inhalation: dust and mist)	Classification not possible
	Skin corrosion/irritation	Category 2
	Eye damage/irritation	Category 2A
	Respiratory sensitization	Classification not possible
	Skin sensitization	Classification not possible
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (single exposure)	Category 2 (kidneys), Category 3 (respiratory irritation, narcotic effect)
	Specific target organ toxicity (repeated exposure)	Category 1 (nervous system)
Environmental hazards:	Aspiration hazard	Classification not possible
	Hazard to the aquatic environment (Acute hazard)	Classification not possible
	Hazard to the aquatic environment (Long-term hazard)	Classification not possible
	Hazard to the ozone layer	Classification not possible

Pictogram or symbol:



Signal word: Warning

Hazard statement: (H225) Highly flammable liquid and vapor.
 (H332) Harmful if inhaled
 (H315) Causes skin irritation.
 (H319) Causes serious eye irritation.
 (H335) May cause respiratory irritation.
 (H336) May cause drowsiness or dizziness.
 (H371) May cause damage to organs.(kidneys)
 (H372) Causes damage to organs through prolonged or repeated exposure (nervous system).

Precautionary statement:

Use only outdoors or in a well-ventilated area. (P271)
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... (P280)
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
 Keep container tightly closed. (P233)
 Ground and bond container and receiving equipment. (P240)
 Use explosion-proof [electrical/ventilating/lighting/...] equipment. (P241)
 Use only non-sparking tools. (P242)
 Take precautionary measures against static discharge. (P243)
 Do not breathe dust/fume/gas/mist/vapours/ spray. (P260)
 Wash ... thoroughly after handling. (P264)
 Do not eat, drink or smoke when using this product. (P270)

Emergency measures:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304 + P340)
 IF ON SKIN: Wash with plenty of water/... (P302 + P352)
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303 + P361 + P353)
 IF exposed or concerned: Call a POISON CENTER/doctor/... (P308 + P311)
 Get medical advice/attention if you feel unwell. (P314)
 Specific treatment. (P321)
 If skin irritation occurs: Get medical advice/attention. (P332 + P313)
 If eye irritation persists: Get medical advice/ attention. (P337 + P313)
 Take off contaminated clothing and wash it before reuse. (P362 + P364)
 In case of fire: Use appropriate materials to extinguish. (P370 + P378)

Storing:

Store in a well-ventilated place. Keep cool. (P403 + P235)
 Store locked up. (P405)

Disposal:

Dispose of contents/container by outsourcing operations to a specialized waste disposal company licensed by the prefectural governor. (P501)

3. Composition/information on ingredients

Nature of composition: Mixture

Chemical or common name: Primer, containing vinyl chloride-vinyl acetate copolymer

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Methyl ethyl ketone	95%	78-93-3	(2)-542	
Resin (VC-VAc copolymer, etc.)	5%	Registered	Registered	

※The content is listed as a range as it is confidential information.

4. First-aid measures**If vapor is inhaled:**

Take the affected person to a clean-air space and give him rest in a easy-breathing pose.

Seek physician's counsel as may be needed.

If touched to skin:

Wash the skin immediately with a lot of water and soap.

Take off the contaminated clothing's for cleaning.

Seek physicians counsel if he suffers from irritation or drowsiness.

If gets in eye:

Thoroughly wash the eye with clean water for a several minutes. Remove contact lens if easily removable. Continue washing after removal.

Seek physician's counsel.

If swallowed:

Immediately wash the mouth with water.

Immediately seek physician's counsel.

Rinse the mouth well and drink a lot of water to vomit.

Anticipated acute & chronic symptoms:

Irritation to respiratory organs, cough and gasp, when inhaled.

Irritation to digestive organs, nausea, vomit and diarrhea, when swallowed.

Skin irritation, defatting, eye irritation, reddening and ache, when contacted.

Anesthesia, headache, drowsiness, restricted vision, vomit, diarrhea and loss of consciousness, when over-exposed to vapor.

Protection of first-aid provider:

First-aid provider should use protective wears such as organic solvent mask, when the circumstances require.

Special note to physician:

No information

5. Fire-fighting measures**Extinguishing agents:**

Carbon dioxide, powder agent, foam agent

Prohibited extinguishing agent:

Water flux

Specific hazards:

Fire may cause to generate irritant, toxic or erosive gas.

Easily flammable. It will readily be ignited by heat, spark or flame.

Heating of container may cause explosion.

Easily inflammable liquid and vapor.

Proper extinguishing method:

Remove surrounding combustibles and use extinguishing agents.

Use foam agent to choke a large scale fire.

Spray water over the neighborhood to cool and prevent fire spread.

Fight against fire standing to its windward as much as possible and wear Respirator if necessary.

6. Accidental release measures**Health hazard precaution, protective wear and first-aid**

Workers should use protective wears (See Chapter 8) to prevent contact with the spilt adhesive and inhalation of its vapor.

Rope off the crowd from the leak spot.

Work from the windward and evacuate the leeward crowd.

In case of indoor leakage, ventilate as much as possible until the cleaning is completed.

Environmental hazard precaution:

Prevent flow out to rivers, etc. so as not to badly affect the environment.

Recovery and neutralization:

For small scale leakage, use absorbent (sawdust, dirt, sand, waste rug) to remove most of the spill and wipe off the rest using waste rug.

For large scale leakage, build bank around the spill and lead the liquid to a safer place for recovery.

Prevention of secondary casualty:

Quickly remove all the combustibles from around the leak spot and provide extinguishers ready for use.

7. Handling and storage precautions**Handling****Technical measures:**

Use protective wears if inhalation or skin contact is foreseen.

No open flames.

Local & total ventilation:

Handling work must be practiced in a room where local or total ventilation facility is functioning.

Safe handling:

Ban of high temperature substance, sparking and fire at nearby points.

Prohibition of eating, drinking and smoking while the product is used.

Wash hands well after handling.

Avoid contact of the product with eye, skin and clothing.

Do not inhale vapor, mist and spray of the product.

Handle it only after reading and understanding all the precautions.

Use the product only in a well ventilated room or outdoors.

Storage**Storing conditions:**

Store in a remote room from heat, sparks and naked flame. No smoking in the storage room.

Store in a cool, ventilated room.

Lock the storage room.

8. Exposure controls and personal protection**Facility measures:**

Local ventilation of closed work room or total proper ventilation to prevent vapor inhalation.

Methyl ethyl ketone
200 ppm

Control concentration:**Permissible concentration (Exposure limit, Biological exposure guide line)**

Japan society for occupational health. 200 ppm

ACGIH TLV-TWA 200 ppm

Protective wears:**Respiratory protection:**

Use aspirator with appropriate filter

Hand protection:

Impermeable gloves

Eye protection:

Glasses-type goggles with side plates.

Skin and body protection:

Long-sleeve fatigue uniform

Hygienic measures:

Wash hands well after handling.

9. Physical and chemical properties**Physical state**

Liquid

Color

Light yellow, transparent

Odor

Characteristic, stimulative

Melting point/Freezing point

No data available

Boiling point or initial boiling point

80°C (bp)

Flammability

No data available

Lower and upper explosion limit/flammability limit

No data available

Flash point

-9°C (Closed Method)

Auto-ignition temperature

400°C

Decomposition temperature

No data available

pH

Not applicable

Dynamic viscosity

Not applicable

Solubility

Insoluble in water

n-octanol/water partition coefficient:

No data available

Vapor pressure

Not applicable

Density and/or relative density

ca. 0.80(23°C)

Relative vapor density

Heavier than air

Particle characteristics

No data available

Viscosity

ca. 10 mPa·s

10. Stability and reactivity**Stability:**

Stable under normal conditions and handling.

Chemical stability:

Vigorously reacts with strong oxidizing agents and ignites.

Possibility of hazardous reaction:

Vigorously reacts with strong oxidizing agents and ignites.

Prohibitive conditions:

Heat

Prohibitive contact:

Oxidizing agent

Hazardous decomposed substances:

Generates Aldehyde, Acid and Organic matter by thermal decomposition.

11. Hazard information**Acute toxicity (oral):**

Measurements of compound ATE mix=2483mg/kg

The product, as the mixture, falls in Classification not possible.

Acute toxicity (dermal):

Measurements of compound ATE mix=>5000mg/kg

The product, as the mixture, falls in Classification not possible.

Acute toxicity (inhalation: gas):

Classified as Liquid based on GHS definition.

Acute toxicity (inhalation: vapor):

Measurements of compound ATE mix=>12300 ppm

The product, as the mixture, falls in Category 4.

Acute toxicity (inhalation: dust/ mist):

No data available.

Skin corrosion/irritation:

The product, as the mixture, falls in Category 2.

Eye damage/irritation:

The product, as the mixture, falls in Category 2A.

Respiratory sensitization:

Respiratory organ sensitization: Classification not possible

Skin sensitization:

Skin sensitization: Classification not possible.

Germ cell mutagenicity:

The product, as the mixture, falls in Classification not possible

Carcinogenicity:

The product, as the mixture, falls in Classification not possible

Reproductive toxicity:

The product, as the mixture, falls in Classification not possible

Specific target organ toxicity

The product contains single-exposure toxic substances of the following Categories:

(single exposure):

Category 2 (kidney) of the components of the mixture was set to Specific target organ toxicity (single exposure) – Category 2 (kidney) because the concentration was more than 10%.

Category 3 (respiratory irritation, narcotic effect) as the concentration of class 3 (respiratory irritation, narcotic effect) is above 20%.

Specific target organ toxicity
(repeated exposure):

Category 1 (nervous system) of the components of the mixture was set to Specific target organ toxicity (repeated exposure) – Category 1 (nervous system) because the concentration was above 10%.

Aspiration hazard:

The product, as the mixture, falls in Classification not possible

12. Ecological information**Ecotoxicity:**

None known at present.

Persistence/degradability:

None known at present.

Ecological accumulative property:

None known at present.

Mobility in soil:

None known at present.

Hazard to the aquatic environment
(Acute hazard):

Not classified

Hazard to the aquatic environment
(Long-term hazard):

Not classified

Hazard to the ozone layer:Does not contain any ingredients listed in the Annexes to the Montreal Protocol.
Classification not possible.**13. Notes on disposal****Residual & waste:**

In the disposal of residual and other wastes, observe the relevant laws /regulations and local government rules.

Users of the product should contract with the local government or licensed 'Industrial Waste Processors' for disposal of waste.

It is important to let the contractor know well of fire and health hazards of the product, prior to disposal.

Contaminated containers & packages:

Clean the containers for reuse or dispose them properly in accordance with relevant regulations and local government rules.

Completely empty containers prior to disposal.

14. Transport information**International rule**

UN number: 1133 (Adhesive, containing inflammable liquid)
Proper shipping name: ADHESIVEScontaining flammable liquid
UN classification: Class 3 (inflammable liquid)
Container Grade II
Sea Pollution Prevention Act Harmful liquid material
 The enforcement order separate table first; Z Group
 (methyl ethyl ketone)
 However, it is not applicable when net weight in one container is 5L or less.

Domestic control:

Guidance Number 128
Onshore control info. Observe the Fire Defense Law.
Offshore control info. Observe the Marine Vessel Safety Law.
Air cargo control info. Observe the Aviation Law.

Special safety measure:

Observe the Fire Defense Law.
 On-board containers of hazardous material must be piled firmly and orderly to avoid falling, tumbling and breaking.
 Cargo of hazardous material must be transported in a way the containers or the material itself do not suffer severe friction and vibration.
 If possible cause of casualty, such as heavy leakage, is found during transportation, try to remedy the situation and notify the fact to the nearby fire department or the relevant bureau.
 The driver carrying hazardous material must hold Yellow Card.
 Do not load hazardous materials together with food and feedstuff.

15. Regulatory information**Labor Safety and Hygiene Law:**

Hazardous materials to be notified to the authority (Chapter 57, Section 2)
 Methyl ethyl ketone
 Hazardous materials to be posted (Chapter 18 of Ordinance)
 Methyl ethyl ketone
 2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4)
 Methyl ethyl ketone
 Mutagenicity chemical substance
 Not applicable
 Carcinogenicity of chemical substances
 (Ordinance on Industrial Safety and Health Chapter 34,Section 2-4)
 Not applicable
 Chemical substances that cause skin and other skin disorders
 (related to Article 22 of the Law).
 Methyl ethyl ketone

Fire Defense Law:

No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II)

PRTR Law:

Not applicable

Poisonous & Deleterious Substance Control Law:

Not applicable

Sea Pollution Prevention Act

Harmful liquid material
 The enforcement order separate table first; Z Group
 Methyl ethyl ketone
 However, it is not applicable when net weight in one container is 5L or less.

16. Other information**Literature:**

- 1) Chemicals Safety Data Sheet (MSDS) Part 1: Content and Order of Items
- 2) Guideline for MSDS Edition (Revised Edition) by Japan Chem. Ind. Assoc.
- 3) GHS Classification Database, Site of National Institute of Technology and Evaluation
- 4) Hazard Handbook of Chemicals by Japan Industrial Safety and Health Association
- 5) Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS) JIS Z 7253:2019

This data sheet is edited by referring to currently available information, however, it is not intended to guarantee the data values or the precision of contained information. The precautions mentioned above are for ordinary handling and use only therefore please handle with care by implementing appropriate safety measures for new application and usage.