

SAFETY DATA SHEET

1. Product and company(manufacturer) identification

Product: Eslotight A
Manufacturer: Sekisui Chemical Co., Ltd.
Address: Toranomon 2-3-17, Minato-ku, Tokyo 105-8450
Responsible section: Urban Infrastructure & Environmental Products Company
 Waterworks and Sewerage Division
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Urgent contact: same as above
Document number: Es-A

2. Hazards identification

GHS Classification

Physicochemical hazards:	Explosives	Not Applicable	
	Flammable gases (including chemically unstable Aerosols)	Not Applicable	
	Oxidizing gases	Not Applicable	
	Gases under pressure	Not Applicable	
	Flammable liquids	Not Applicable	
	Flammable solids	Not Classified	
	Self-active chemicals	Not Applicable	
	Pyrophoric liquids	Not Applicable	
	Pyrophoric solids	Not Classified	
	Self-heating chemicals	Classification Not Possible	
	Chemicals which, in contact with water, emit flammable gases	Not Applicable	
	Oxidizing liquids	Not Applicable	
	Oxidizing solids	Not Applicable	
	Organic peroxides	Not Applicable	
	Substances corrosive to metals	Not Classified	
	Health hazards:	Acute toxicity (oral)	Not Classified
		Acute toxicity (dermal)	Classification Not Possible
		Acute toxicity (inhalation: gas)	Not Applicable
		Acute toxicity (inhalation: vapor)	Classification Not Possible
		Acute toxicity (inhalation: dust and mist)	Classification Not Possible
Skin corrosion/irritation		Category 2	
Eye damage/irritation		Category 2B	
Respiratory sensitization		Classification Not Possible	
Skin sensitization		Category 1	
Germ cell mutagenicity		Not Classified	
Carcinogenicity		Classification Not Possible	
Reproductive toxicity		Not Classified	
Environmental hazards:	Specific target organ toxicity (single exposure)	Classification Not Possible	
	Specific target organ toxicity (repeated exposure)	Classification Not Possible	
	Aspiration hazard	Not Classified	
	Hazard to the aquatic environment(Acute hazard)	Category 1	
	Hazard to the aquatic environment(Long-term hazard)	Category 1	
Hazard to the ozone layer	Classification Not Possible		

Pictogram or symbol:**Signal word:**

Warning

Hazard statement:	Causes skin irritation Causes eye irritation May cause an allergic skin reaction Very toxic to aquatic life Very toxic to aquatic life with long lasting effects
Precautionary statement:	The product may cause skin affection or intoxication if touched to the skin or inhaled the vapor. Please observe the precautions given below and refer to the SDS and the instruction sheet for safe handling. Avoid skin contact during handling and wear Eyeglasses , long-sleeved shirts and gloves. Use respirator as needed. Wash hands and gargle sufficiently after handling. Close the cap of container tightly and store it in a cool, dark space. If the adhesive touched to skin, wipe the local spot immediately and wash well using soap. If itch or inflammation is felt, seek physician's counsel. Never use the adhesive for other purposes than intended.

3. Composition/information on ingredients

Nature of composition: Mixture
Chemical or common name: Liquid epoxy resin

Component	CAS Number	Content
Reaction product of bisphenol A and epichlorohydrin	25068-38-6	41%
Urethane modified epoxy resin	Non Disclosure	20 to 30 %
Titanium Oxide	13463-67-7	1 to 10 %
Calcium carbonate	471-34-1	25 to 35 %

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.
If swallowed:	Seek physician's counsel. Immediately wash the mouth with water. Immediately seek physician's counsel. Rinse the mouth well and drink a lot of water to vomit.
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. 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.
Environmental hazard precaution:	Prevent flow out to river, 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. Fire ban.
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.
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8. Exposure controls and personal protection**Facility measures:**

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

Control concentration:

not decided

Permissible concentration (Exposure limit, Biological exposure guide line)

Japan society for occupational health.
(2005 version)

not decided

ACGIH (2005 version) TLV-TWA

not decided

Protective wears:

Respiratory protection:	Use aspirator with appropriate filter
Hand protection:	Impermeable gloves
Eye protection:	Solvent-resistant goggles
Skin and body protection:	long-sleeve fatigue uniform
Hygienic measures:	Wash hands well after handling.

9. Physical and chemical properties

Form:	Viscous Liquid
Color:	White
Odor:	Slight
specific gravity	1.26
Melting point:	Data not available
Vapor pressure:	Data not available
Flash point:	250°C

10. Stability and reactivity**Stability:**

Stable under normal conditions and handling.

Possibility of hazardous reaction:

Reacts with organic base, strong oxidizing agents.

Prohibitive conditions:

Heat

Prohibitive contact:

With organic base, oxidizing agent

Hazardous decomposed substances:

Generates Aldehyde, Acid and Organic matter by thermal decomposition.

11. Hazard information**Acute toxicity, oral**

Estimation ATE mix=11400mg/kg

Skin corrosion/irritation

The product, as a mixture, falls in Not Classified

Eye damage/irritation

The product, as a mixture, falls in Category 2 (Causes skin irritation).

Skin sensitization

The product, as a mixture, falls in Category 2B (Causes eye irritation).

The product, as a mixture, falls in Category 1 (May cause an allergic skin reaction)

12. Ecological information

Hazard to the aquatic environment(Acute hazard):	The product, as a mixture, falls in Category 1(Very toxic to aquatic life)
Hazard to the aquatic environment(Long-term hazard):	The product, as a mixture, falls in Category 1(Very toxic to aquatic life with long lasting effects)
Hazard to the ozone layer:	Does not contain any ingredient 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:	3077
UN classification:	Class 9
Container Grade	III
Sea Pollution Prevention Act	Harmful liquid material The enforcement order separate table first; X Group (Reaction product of bisphenol A and epichlorohydrin) However, it is non-corresponded when net weights of one container are less than 5L
Domestic control:	
Guidance Number	171
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) (Titanium Oxide) Hazardous materials to be posted (Chapter 18 of Ordinance) (Not applicable) Mutagenicity chemical substance
Fire Defense Law:	Not applicable
PRTR Law:	Not applicable
Poisonous & Deleterious Substance Control Law:	Not applicable
Sea Pollution Prevention Act	Harmful liquid material The enforcement order separate table first; X Group (Reaction product of bisphenol A and epichlorohydrin) However, it is non-corresponded when net weights of one container are less than 5L

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-Labeling and Safety Data Sheet(SDS) JIS Z 7253:2012
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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.