

SAFETY DATA SHEET

1. Product and company(manufacturer) identification

Product: Eslotight B
Manufacturer: Sekisui Chemical Co., Ltd.
Address: Toranomom 2-3-17, Minato-ku, Tokyo 105-8450
Responsible section: Urban Infrastructure & Environmental Products Company
 Waterworks and Sewerage Division
Telephone: 03-5521-0756
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Urgent contact: same as above
Document number: Es-B

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)	Category 5
		Acute toxicity (dermal)	Category 5
Acute toxicity (inhalation: gas)		Not Applicable	
Acute toxicity (inhalation: vapor)		Classification Not Possible	
Acute toxicity (inhalation: dust and Skin corrosion/irritation)		Classification Not Possible	
Eye damage/irritation		Category 2	
Respiratory sensitization		Category 2B	
Skin sensitization		Classification Not Possible	
Germ cell mutagenicity		Category 1	
Carcinogenicity		Classification Not Possible	
Reproductive toxicity		Classification Not Possible	
Specific target organ toxicity (single exposure)		Classification Not Possible	
Specific target organ toxicity (repeated exposure)		Classification Not Possible	
Environmental hazards:	Aspiration hazard	Not Classified	
	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:	May be harmful if swallowed May be harmful in contact with skin Causes skin irritation Causes eye irritation May cause an allergic skin reaction
Precautionary statement:	The product may cause skin affection or intoxication if touched to 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: Modified Polythiol

Component	CAS Number	Content
Polythiol	Non Disclosure	55 to 65 %
Tert.amine	90-72-2	1 to 10 %
Calcium carbonate	471-34-1	25 to 35 %
Carbon black	Non Disclosure	Less than 1 %

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 attached 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.
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.
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Control concentration:	not decided
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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:	Gray
Odor:	Amine
specific gravity	1.26
Melting point:	Data not available
Vapor pressure:	Data not available
Flash point:	220°C

10. Stability and reactivity

Stability:	Stable under normal conditions and handling.
Possibility of hazardous reaction:	reacts with epoxy, isocyanate, strong acid.
Prohibitive conditions:	Heat
Prohibitive contact:	With epoxy, oxidizing agent.
Hazardous decomposed substances:	Generates amine and organic matter by thermal decomposition.

11. Hazard information

Acute toxicity, oral	Measurements of compound ATE mix=2448mg/kg The product, as a mixture, falls in Category 5(May be harmful if swallowed)
Acute toxicity, dermal	Measurements of compound ATE mix=2299mg/kg The product, as a mixture, falls in Category 5(May be harmful in contact with skin)
Skin corrosion/irritation	The product, as a mixture, falls in Category 2 (Causes skin irritation).
Eye damage/irritation	The product, as a mixture, falls in Category 2B (Causes eye irritation).
Skin sensitization	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):	Data not available.
Hazard to the aquatic environment(Long-term hazard):	Data not available.
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:	3259
UN classification:	Class 8
Container Grade	III
Sea Pollution Prevention Act	Not applicable

Domestic control:

Guidance Number	154
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) (Not applicable) Hazardous materials to be posted (Chapter 18 of Ordinance) (Not applicable)
Fire Defense Law:	Not applicable
PRTR Law:	Not applicable
Poisonous & Deleterious Substance Control Law:	Not applicable
Sea Pollution Prevention Act	Not applicable

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 7253:2012

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.