

SAFETY DATA SHEET

1. Product and company(manufacturer) identification

Product: Eslon Draintight 502A
Manufacturer: Sekisui Chemical Co., Ltd.
Address: Toranomon 2-10-4, Minato-ku, Tokyo 105-8566
Responsible section: Urban Infrastructure & Environmental Products Company
 Pipe Systems Division
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Document number: #502A

2. Hazards identification

GHS Classification

Physicochemical hazards:	Explosives	Classification Not Possible
	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	Classification Not Possible
	Self-heating chemicals	Classification Not Possible
	Chemicals which, in contact with water, emit flammable gases	Classification Not Possible
	Oxidizing liquids	Not Applicable
	Oxidizing solids	Classification Not Possible
	Organic peroxides	Classification Not Possible
	Substances corrosive to metals	Classification Not Possible
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	Classification Not Possible
	Carcinogenicity	Classification Not Possible
	Reproductive toxicity	Classification Not Possible
	Specific target organ toxicity (single exposure)	Category 3(respiratory tract irritancy)
	Specific target organ toxicity (repeated exposure)	Category 1(respiratory system)
Environmental hazards:	Aspiration hazard	Classification Not Possible
	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:

Danger

Hazard statement: (H315+H320)Causes skin and eye irritation
(H317)May cause an allergic skin reaction.
(H335)May cause respiratory irritation.
(H372)Causes damage to organs through prolonged or repeated exposure.
(H410)Very toxic to aquatic life with long lasting effects.

Precautionary statement:
Avoid breathing dust/fume/gas/mist/vapours/spray. (P261)
Wash thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Use only outdoors or in a well-ventilated area. (P271)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Avoid release to the environment. (P273)
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water. (P302+P352)
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Call a POISON CENTER or doctor/physician if you feel unwell. (P312)
Get medical advice/attention if you feel unwell. (P314)
Specific treatment (see label). (P321)
If skin irritation occurs: Get medical advice/attention. (P332+P313)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)
If eye irritation persists: Get medical advice/attention. (P337+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
Collect spillage. (P391)
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
Store locked up. (P405)
Dispose of contents/container in accordance with local/regional/national/international regulations. (P501)

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	34%
Trimethylolpropane triglycidyl ether	30499-70-8	5 to 15 %
Silica	112926-00-8	5 to 15 %
Titanium Oxide	13463-67-7	1 to 10 %
Portland cement	65997-15-1	45 to 50 %

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.

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.	not decided
ACGIH(2005) TLV-TWA	1mg/m3 (Portland cement)

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:	ASH GRAY
Odor:	Slight
specific gravity	1.6~1.9(20°C)
Melting point:	Data not available
Vapor pressure:	Data not available
Flash point:	250°C
Water solubility:	insoluble in water, soluble in common organic solvents
n-octanol/water partition coefficient:	Data not available

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 The product, as a mixture, falls in Not Classified
Skin corrosion/irritation	The product, as a mixture, falls in Category 2.
Eye damage/irritation	The product, as a mixture, falls in Category 2B.
Skin sensitization	The product, as a mixture, falls in Category 1.
Single toxicity	The product, as a mixture, falls in Category 3(respiratory tract irritancy)
Reproductive toxicity	The product, as a mixture, falls in Category 1(respiratory system)

12. Ecological information

Hazard to the aquatic environment(Acute hazard): The product, as a mixture, falls in Category 1.

Hazard to the aquatic environment(Long-term hazard): The product, as a mixture, falls in Category 1.

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

Packing group: 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)
(Silica, Titanium Oxide, portland cement)
Hazardous materials to be posted (Chapter 18 of Ordinance)
(Silica, Titanium Oxide, portland cement)
Mutagenicity chemical substance

Fire Defense Law: Not applicable

PRTR Law: Class I Designated Chemical Substance, Trimethylolpropane triglycidyl ether, Cabinet Order 359
Class I Designated Chemical Substance, DOP, Cabinet Order 355

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-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.