SDS No.502A 1/5page

Implementation: Jun. 4, 2013 Issue Date: Jun. 1, 2024

SAFETY DATA SHEET

1. Product and company (manufacturer) identification

Product:

Manufacturer:

Address:

Responsible section:

Telephone: Urgent telephone: Fax: Urgent contact: **Application & restriction**

Document number:

2. Hazards identification

GHS Classification

Physicochemical hazards

Health hazards:

Eslon Draintight 502A Sekisui Chemical Co., Ltd. Toranomon 2-10-4, Minato-ku, Tokyo 105-8566 Urban Infrastructure & Environmental Products Company Pipe Systems Division +81-3-6748-6492 +81-3-6748-6492 +81-3-6748-6564 Same as above Bonding agent for polyvinyl chloride piping system for sewers. Other applications are prohibited. #502A

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ds:	Explosives	Not classified Not classified
	Flammable gases Aerosols	Not classified
		Not classified
	Oxidizing gases	Not classified
	Gases under pressure	Not classified
	Flammable liquids Flammable solids	Not classified
	Self-active chemicals	Not classified
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not classified
	Self-heating chemicals	Classification not possible
	Chemicals which, in contact with water, emit flammable gases	Not classified
	Oxidizing liquids	Not classified
	Oxidizing solids	Not classified
	Organic peroxides	Not classified
	Substances corrosive to metals	Classification not possible
	Desensitized explosives	Not classified
	Acute toxicity (oral)	Not classified
	Acute toxicity (dermal)	Classification not possible
	Acute toxicity (inhalation: gas)	Not classified
	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	Category 1 (respiratory system)
	(repeated exposure)	
	Aspiration hazard	Classification not possible
	Hazard to the aquatic environment (Acute hazard)	Category 1
	Hazard to the aquatic environment	Category 1

Hazard to the aquatic environment Category 1 (Long-term hazard) Hazard to the ozone layer

Classification not possible



Pictogram or symbol:

Environmental hazards:

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 (respiratory) through prolonged or repeated
	exposure.
	(H410) Very toxic to aquatic life with long lasting effects.
Precautionary statement:	
-	Do not breathe dust/fume/gas/mist/vapors/spray. (P260)
	Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)
	Wash hands and eyes 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. (P280)
	IF ON SKIN: Wash with plenty of soap and water. (P302+P352)
	IF INHALED: Remove victim 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 the 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. Keen container tightly closed. (P402+P222)
	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)
	וטטמו/ דטבוטוומו/ וומנוטוומו/ ווונפרוומנוטוומו דפצטומנוטווס. (דטטד)

3. Composition/information on ingredients

Nature of composition:
Chemical or common name:
Hazardous ingredients:

Mixture Liquid epoxy resin Reaction product of bisphenol A and epichlorohydrin, Titanium oxide, Portland cement

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Reaction product of bisphenol A and epichlorohydrin	30 to 35%	25068-38-6	(7)-1283	
Trimethylolpropane triglycidyl ether	5 to 14%	30499-70-8	(7)-343	
Silica (amorphous)	5 to 14%	112926-00-8	(1)-548	
Titanium oxide	1 to 10%	13463-67-7	(1)–558	
Portland cement	45 to 50%	65997-15-1	—	

XThe 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:	Immediately wipe off and wash the skin with plenty 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:	Rinse cautiously with plenty water over 15 minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	Seek physician's counsel.
If swallowed:	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: Prohibited extinguishing agent: Specific hazards:

Proper extinguishing method:

Carbon dioxide, powder agent, foam agent Water flux 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. 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. The use of water can spread the fire and be dangerous.

6.	Accidental release measures		
	Health hazard precaution, protective we aid	t	Norkers should use protective wears (See Chapter 8) to prevent contact with the spilt adhesive and inhalation of its vapor.
	Environmental beneral pressuition:		Rope off the crowd from the leak spot. Prevent flow out to river, etc. so as not to badly affect the environment.
	Environmental hazard precaution: Recovery and neutralization:	F	For small scale leakage, use absorbent (sawdust, dirt, sand, waste rug) to remove nost of the spill and collect in sealed containers.
			For large scale leakage, build bank around the spill and lead the liquid to a safer blace for recovery.
		Ă	Alternatively, absorb the spillage onto sand, rags, etc. and collect it in a sealed container.
	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:		Jse protective wears if inhalation or skin contact is foreseen. No open flames.
	Local & total ventilation	on: ⊦	Handling work must be practiced in a room where local or total ventilation facility s functioning.
	Safe handling:	F	Ban of high temperature substance, sparking and fire at nearby points. Prohibition of eating, drinking and smoking while the product is used. Nash hands well after handling.
			Avoid contact of the product with eye, skin and clothing.
			Do not inhale vapor, mist and spray of the product.
			landle it only after reading and understanding all the precautions.
			Jse 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. _ock the storage room.
8.	Exposure controls and personal protectio		
	Facility measures:		_ocal ventilation of closed work room or total proper ventilation to prevent vapor nhalation.
	Control concentration: Permissible concentration (Exposure lim exposure guide line)		Not determined
	Japan society for occupat		Not determined
	ACGIH(2005) TLV-TWA	1	Img/m3 (Portland cement)
	Protective wears:		
	Respiratory protectior		Jse aspirator with appropriate filter
	Hand protection:		mpermeable gloves
	Eye protection:		Glasses-type goggles with side plates.
	Skin and body protect Hygienic measures:		_ong-sleeve fatigue uniform Nash hands well after handling.
9	Physical and chemical properties		
	Physical state	N	/iscous liquid
	Color	A	Ash gray
	Odor		Characteristic
	Melting point/Freezing	-	No data available
	Boiling point or initial	poiling point N	No data available
	Flammability	Ν	No data available
	Lower and upper explo limit/flammability limit	sion N	No data available
	Flash point		250°C

Auto-ignition temperature Decomposition temperature pH Dynamic viscosity Solubility n-octanol/water partition coefficient: Vapor pressure Density and/or relative density Relative vapor density

Particle characteristics

No data available No data available Not applicable insoluble in water, soluble in common organic solvents No data available

Not applicable $1.6 \sim 1.9 (20^{\circ}C)$ Heavier than air No data available

10. Stability and reactivity	
Stability:	Stable under normal conditions and handling.
Chemical stability:	Stable under normal conditions and handling.
Possibility of hazardous reaction:	Reacts with organic base, strong oxidizing agents.
Prohibitive conditions:	Heat
Prohibitive contact:	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 the mixture, falls in Not classified
Skin corrosion/irritation	The product, as the mixture, falls in Category 2.
Eye damage/irritation	The product, as the mixture, falls in Category 2B.
Skin sensitization	The product, as the mixture, falls in Category 1.
Single toxicity	The product, as the mixture, falls in Category 3 (respiratory tract irritancy)
Reproductive toxicity	The product, as the mixture, falls in Category 1 (respiratory system)

As a result of the Ministry of Health, Labor and Welfare's toxicity study, mutagenicity tests using micro-organisms and chromosomal aberration tests using mammalian cultured cells showed mutagenicity exceeding the prescribed criteria and may cause health problems.

12.	Ecological information Ecotoxicity: Persistence/degradability: Ecological accumulative property: Mobility in soil:	None known at present. None known at present. None known at present. None known at present.	
	Hazard to the aquatic environment (Acute hazard):	The product, as the mixture, falls in Category 1.	
	Hazard to the aquatic environment (Long–term hazard): Hazard to the ozone layer:	The product, as the mixture, falls in Category 1. Does not contain any ingredients listed in the Annexes to the Montreal Protocol.	
13.	Notes on disposal Residual & waste:	Classification not possible. 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	
	Contaminated containers & packages:	'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. 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: Proper shipping name: UN classification: Packing group: Sea Pollution Prevention Act	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Class 9 III Harmful liquid material The enforcement order separate table first; X Group (Reaction product of bisphenol A and epichlorohydrin) However, it is not applicable when net weight in one container is 5L or less.	
	Domestic control: Guidance Number Onshore control info. Offshore control info. Air cargo control info. Special safety measure:	 171 Observe the Fire Defense Law. Observe the Marine Vessel Safety Law. Observe the Aviation Law. 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.

Labor Safety and Hygiene Law: Hazardous materials to be notified to the authority (Chapter 57, Section 2) (Titanium oxide, portland cement) Hazardous materials to be posted (Chapter 18 of Ordinance) (Titanium oxide, portland cement) Mutagenicity chemical substance 2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4) (Not applicable) Mutagenicity chemical substance (Reaction product of bisphenol A and epichlorohydrin) 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). (Reaction product of bisphenol A and epichlorohydrin) Not applicable) Poisonous & Deleterious Substance Control Law: Not applicable Poisonous & Deleterious Substance Control Law: Sea Pollution Prevention Act 10. 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 Hardbook of Chemicals based on GHS-Labelling and Safety Data Sheet (SDS) JIS 7253:2019	15	. Regulatory information		
Literature:1) Chemicals Safety Data Sheet (MSDS)Part 1: Content and Order of Items2) Guideline for MSDS Edition (Revised Edition) by Japan Chem. Ind. Assoc.3) GHS Classification Database, Site of National Institute of Technology and Evaluation4) Hazard Handbook of Chemicals by Japan Industrial Safety and Health Association5) Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS) JIS		Fire Defense Law: PRTR Law: Poisonous & Deleterious Substance	e Control Law:	 (Titanium oxide, portland cement) Hazardous materials to be posted (Chapter 18 of Ordinance) (Titanium oxide, portland cement) Mutagenicity chemical substance 2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4) (Not applicable) Mutagenicity chemical substance (Reaction product of bisphenol A and epichlorohydrin) 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). (Reaction product of bisphenol A and epichlorohydrin) Not applicable And epichlorohydrin)
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		Literature:	 2) Guideline for 3) GHS Classific 4) Hazard Handb 5) Hazard comm 	MSDS Edition (Revised Edition) by Japan Chem. Ind. Assoc. ation Database, Site of National Institute of Technology and Evaluation book of Chemicals by Japan Industrial Safety and Health Association

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.