Implementation: Sep.20,2011 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

4 Physicochemical h

ESLON Adhesive No.65S 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 Adhesive for polyvinyl chloride piping system Other applications are prohibited. #65S

on			
Physicochemical hazards:	Explosives	Not classified	
	Flammable gases	Not classified	
	Aerosols and chemicals under	Not classified	
	pressure		
	Oxidizing gases	Not classified	
	Gases under pressure	Not classified	
	Flammable liquids	Category 2	
	Flammable solids	Not classified	
	Self-reactive substances and	Not classified	
	mixtures		
	Pyrophoric liquids	Not classified	
	Pyrophoric solids	Not classified	
	Self-heating substances and mixtures		
		Not classified	
	Substances and mixtures which, in	Not classified	
	contact with water, emit flammable		
		N	
	Oxidizing liquids	Not classified	
	Oxidizing solids	Not classified	
	Organic peroxides	Not classified	
	Corrosive to metals	Not classified	
	Desensitized explosives	Classification Not Possible	
Health hazards:	Acute toxicity (oral)	Category 4	
	Acute toxicity (dermal)	Category 4	
	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	Category 1	
	Germ cell mutagenicity	Category 2	
	Carcinogenicity	Classification Not Possible	
	Reproductive toxicity	Category 2	
	Specific target organ toxicity (single	Category 1 (respiratory)	
	exposure)	Category 2(kidneys, central nervous	
		Category 3 (narcotic effect, respiratory	
		tract irritancy)	
	Specific target organ toxicity	Category 1 (respiratory, bones, digestive	
	(repeated exposure)	tract, nervous system,central nervous	
		system)	
	Appiration barand	Not classified	
Environmental hereider	Aspiration hazard		
Environmental hazards:	Hazard to the aquatic	Not classified	
	environment(Acute hazard)	Net des 'C's d	
	Hazard to the aquatic	Not classified	
	environment(Long-term hazard)		
	Hazard to the ozone layer	Classification Not Possible	

Pictogram or symbol:	
Signal word: Hazard statement:	Danger (H302+H312+H332)Harmful if swallowed, in contact with skin or if inhaled. (H225)Highly flammable liquid and vapor. (H315)Causes skin irritation. (H317)May cause an allergic skin reaction. (H319)Causes serious eye irritation. (H335)May cause respiratory irritation. (H336)May cause drowsiness or dizziness. (H341)Suspected of causing genetic defects. (H361)Suspected of damaging fertility or the unborn child. (H370)Causes damage to organs(respiratory). (H371)May cause damage to organs(kidneys, central nervous system). (H372)Causes damage to organs(respiratory, bones, digestive tract, nervous
	systems, central nervous systems) through prolonged or repeated exposure.
Precautionary statement:	Obtain special instructions before use.(P201) Do not handle until all safety precautions have been read and understood.(P20 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.(P210) Keep container tightly closed.(P233) Ground/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/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 Wear protective gloves/protective clothing/eye protection/face protection.(P280) IF ON SKIN: Wash with plenty of soap and water.(P302+P352) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.(P303+P361+P353) IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
	<ul> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</li> <li>IF exposed or concerned: Get medical advice/attention.(P308+P313)</li> <li>Call a POISON CENTER or doctor/physician if you feel unwell.(P312)</li> <li>Get medical advice/attention if you feel unwell.(P314)</li> <li>Specific treatment (see label).(P321)</li> <li>Rinse mouth.(P330)</li> <li>If skin irritation occurs: Get medical advice/attention.(P332+P313)</li> <li>If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)</li> <li>If eye irritation persists: Get medical advice/attention.(P337+P313)</li> <li>Take off contaminated clothing and wash it before reuse.(P362+P364)</li> <li>In case of fire: Use for extinction:(P370+P378)</li> <li>Store in a well-ventilated place. Keep cool.(P403+P235)</li> <li>Store locked up.(P405)</li> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.(P501)</li> </ul>

## 3. Composition/information on ingredients

Nature of composition:MixtureChemical or common name:Adhesive

Adhesive, containing vinyl chloride-vinyl acetate copolymer

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Cyclohexanone	54%	108-94-1	(3)-2376	
Methyl ethyl ketone	17%	78-93-3	(2)-542	
Acetone	13%	67-64-1	(2)-542	
Resin (VC-VAc copolymer, etc.)	17%	9003-22-9	(6)-76	
Tin compound	Less than 0.3%	15571-58-1	(2)-2307	

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
Ductostion of first-sid provident	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
Special note to physician.	
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-	Workers should use protective wears (See Chapter 8) to prevent contact with
aid	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
Environmental beyond pressuitions	completed.
Environmental hazard precaution: Recovery and neutralization:	Prevent flow out to river, etc. so as not to badly affect the environment. For small scale leakage, use absorbent (sawdust, dirt, sand, waste rug) to
NGOVELY AND NEULIAIIZAUUN.	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
. Stondon of Sobolidary Subdally.	extinguishers ready for use.

### 7. Handling and storage precautions

Hazardous decomposed substances:

7. Handling and s Handling	torage precautions			
Tanunig	Technical measures:	Use protective w Fire ban.	ears if inhalation or s	skin contact is foreseen.
	Local & total ventilation:		•	room where local or total ventilation
	Safe handling:	Ban of high temp Prohibition of eat Wash hands well Avoid contact of Do not inhale vap Handle it only aft	erature substance, sp ing, drinking and smo after handling. the product with eye oor, mist and spray of er reading and under	-
Storage		Use the product	only in a well ventilat	
	Storing conditions:	Store in a remote storage room. Store in a cool, v Lock the storage	entilated room.	arks and naked flame. No smoking in the
8. Exposure cont Facility meas	rols and personal protection sures:		of closed work room	or total proper ventilation to prevent
		vapor inhalation.		
		Cyclohexanone	Methyl ethyl ketone	Acetone
Control conc Permissible c exposure gui	oncentration (Exposure limit, Biologica	20 ppm I	200 ppm	500 ppm
	Japan society for occupational health.	25 ppm	200 ppm	200 ppm
	ACGIH TLV-TWA	20 ppm	200 ppm	500 ppm
Protective w	ears:			
Hygienic mea	Respiratory protection: Hand protection: Eye protection: Skin and body protection: sures:	Impermeable glov Solvent-resistant long-sleeve fatig Wash hands well	t goggles ue uniform	
0 Dhysical and a				
9. Physical and c	hemical properties Physical state, form:			Liquid
	Color: Odor: Melting point/freezing point: Bp, initial bp & boiling range: Flammability: Evaporation rate: Flash point: Auto ignition point: Decomposition temperature: pH: Dynamic viscosity: Solubilities: n-Octanol/water partition coeffici Vapor pressure: Specific gravity (density): Vapor density: Particle characteristics:	ient:(log Pow)		Colorless transparent Characteristic stimulative odor $-20^{\circ}$ C or lower $56.5^{\circ}$ C (bp) Highly flammable liquid and vapor no data available $-17^{\circ}$ C (Closed Method) $420^{\circ}$ C no data available Not applicable ca.540 (mm <sup>2</sup> /s)/20^{\circ}C insoluble in water no data available no data available ca.0.93(20^{\circ}C) no data available no data available no data available no data available no data available
	nonvolatile content: Viscosity:			ca. 16% ca. 500 mPa∙s
10. Stability and Stability:	-		mal conditions and ha	0
Prohibitive co Prohibitive co		Heat With oxidizing age		g agents and ignites.

With oxidizing agent Generates Aldehyde, Acid and Organic matter by thermal decomposition.

## 11. Hazard information

Acute toxicity: (Appended Table)

	Content	Acute toxicity (oral)	Acute toxicity (dermal)	Acute toxicity (inhalation: gas)	Acute toxicity (inhalation: vapor)	Acute toxicity (inhalation: dust and mist)
Cyclohexanone	54%	Category 4 (1544mg/kg)	Category 3 (947mg/kg)	Not classified	Category 3 (2450ppm)	Not Classified (8000ppm)
Methyl ethyl ketone	17%	Not Classified (>2000mg/kg)	Not Classified (>5000mg/kg)	Not classified	Category 4 (11700ppm)	Classification Not Possible
acetone	13%	Not Classified (>5000mg/kg)	Not Classified (>7400mg/kg)	Not classified	Not Classified (32000ppm)	Classification Not Possible
Resin (VC–VAc copolymer, etc.)	17%	Classification Not Possible	Classification Not Possible	Classification Not Possible	Classification Not Possible	Classification Not Possible

Acute toxicity(oral):	The product contains substances of acute toxicity (oral) of Categories indicated in Appended Table. The dose is calculated for the mixture (the product) to be $ATE mix=1500 mg/kg$
Acute toxicity(dermal):	product) to be ATE mix=1500 mg/kg. The product, as a mixture, falls in Category 4. The product contains substances of acute toxicity (transdermal) of Categories
	indicated in Appended Table. The dose is calculated for the mixture (the product) to be ATE mix=1723 mg/kg. The product, as a mixture, falls in Category 4.
Acute toxicity(inhalation: vapor):	The product contains substances of acute toxicity (vapor inhalation) of Categories indicated in Appended Table. The dose is calculated for the mixture (the product) to be ATE mix=17mg/l
Skin corrosion/irritation:	The product, as a mixture, falls in Category 4. The product contains skin-irritating substances of the following Categories: Category 2: Cyclohexanone (54 %), methyl ethyl ketone (17 %).
Eye damage/irritation:	The product, as a mixture, falls in Category 2. The product contains caustically injuring and irritating substances of the following Categories:
	Category 2A: Cyclohexanone (54 %), methyl ethyl ketone (17 %) Category 2B: Acetone(13%) The product, as a mixture, falls in Category 2A.
Respiratory sensitization: Skin sensitization:	Respiratory organ sensitization: No available data. The product contains caustically injuring and irritating substances of the following Categories: Category 1: Cyclohexanone (54 %). The product, as a mixture, falls in Category 1.
Germ cell mutagenicity:	The product contains mutagenicity substances of the following Category: Category 2: Cyclohexanone (54 %). The product, as a mixture, falls in Category 2.
Carcinogenicity: Reproductive toxicity:	Respiratory organ sensitization: No available data. The product contains reproductive toxicity of the following Category: Category 2: Cyclohexanone (54 %), Acetone(13%) The product, as a mixture, falls in Category 2.
Specific target organ toxicity (single exposure):	The product contains single-exposure toxic substances of the following Categories: Cyclohexanone (54%) > 1%, Category 1 (respiratory), Category 2 (central
	nervous system) and Category 3 (narcotic effect), Methyl ethyl ketone (17%) > 1%, Category 2 (Kidneys) and Category 3 (respiratory tract irritancy). Acetone (13%) > 1%, Category 3 (narcotic effect, respiratory tract irritancy).
	The product, as a mixture, falls in Category 1 (respiratory), Category 2 (kidneys, central nervous system) and Category 3 (narcotic effect, respiratory tract irritancy).
Specific target organ toxicity (repeated exposure):	The product contains multiple-exposure toxic substances of the following Categories: Cyclohexanone (54%) > 1%, Category 1 (bones, central nervous system),
	Methyl ethyl ketone $(17\%) > 1\%$ , Category 1 (nervous system), Acetone $(13\%) > 1\%$ , Category 1 (central nervous system, respiratory, digestive tract). The product, as a mixture, falls in Category 1 (respiratory, bones, digestive
Aspiration hazard:	tract, nervous systems, central nervous systems). The product contains more than 10% in total of respiratory-harmful substances of the following Category, however, the kinematic viscosity at 40°C is more than 20.5mm2/s:
	The product, as a mixture, falls Not Classified.

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12. Ecological in	formation	
Hazard to the aquatic environment(Acute hazard):		Not classified
Hazard to th hazard):	ne aquatic environment(Long-term	Not classified
Hazard to th	ne ozone layer:	Does not contain any ingredient listed in the Annexes to the Montreal Protocol. Classification Not Possible.
13. Notes on disposal Residual & waste: Contaminated containers & packages:		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. 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 in International		
Internationa	I rule UN number: UN classification: Packing Group: Sea Pollution Prevention Act	1133 (Adhesive, containing inflammable liquid) Class 3 (inflammable liquid) II Harmful liquid material The enforcement order separate table first; Z Group (Cyclohexanone, methyl ethyl ketone, Acetone) However, it is non-corresponded when net weights of one container are less than 5L
Domestic co	ontrol:	However, it is non-corresponded when het weights of one container are less than JL
Special safe	Guidance Number Onshore control info. Offshore control info. Air cargo control info. ty measure:	<ul> <li>128</li> <li>Observe the Fire Defense Law.</li> <li>Observe the Marine Vessel Safety Law.</li> <li>Observe the Aviation Law.</li> <li>Observe the Fire Defense Law.</li> <li>On-board containers of hazardous material must be piled firmly and orderly to avoid falling, tumbling and breaking.</li> <li>Cargo of hazardous material must be transported in a way the containers or the material itself do not suffer severe friction and vibration.</li> <li>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</li> </ul>
		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 in Labor Safety	nformation y and Hygiene Law:	Hazardous materials to be notified to the authority (Chapter 57, Section 2) (Cyclohexanone, methyl ethyl ketone, Acetone, Tin compound) Hazardous materials to be posted (Chapter 18 of Ordinance) (Cyclohexanone, methyl ethyl ketone, Acetone) 2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4) (Cyclohexanone, methyl ethyl ketone, Acetone) 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). (Cyclohexanone, methyl ethyl ketone)
	e Law: Deleterious Substance Control Law: n Prevention Act	No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II) Not applicable Not applicable Harmful liquid material The enforcement order separate table first; Z Group (Cyclohexanone, methyl ethyl ketone, Acetone)

However, it is non-corresponded when net weights of one container are less than 5L

- 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.