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Implementation: Jul. 22, 2019 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 hazard

Health hazards:

ESLON Adhesive No.73S Violet 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. #73SV

rds:	Explosives	Not classified
	Flammable gases	Not classified
	Aerosols and chemicals under	Not classified
	pressure	Nat alassified
	Oxidizing gases	Not classified Not classified
	Gases under pressure Flammable liquids	
	Flammable solids	Category 2 Not classified
	Self-reactive substances and	Not classified
	mixtures	Not classified
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not classified
	Self-heating substances and mixtures	
	Substances and mixtures which, in	Not classified
	contact with water, emit flammable	
	gases	
	Oxidizing liquids	Not classified
	Oxidizing solids	Not classified
	Organic peroxides	Not classified
	Corrosive to metals	Not classified
	Desensitized explosives	Classification not possible
	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	Classification not possible
	mist)	
	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 system)
		Category 3 (narcotic effect, respiratory tract irritancy)
	Specific target organ toxicity	Category 1 (respiratory, bones, digestive
	(repeated exposure)	tract, nervous system, central nervous system)
	Aspiration hazard	Not classified

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## 3. Composition/information on ingredients

### Nature of composition: Mixture

#### Chemical or common name:

Adhesive, containing vinyl chloride-vinyl acetate copolymer

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Cyclohexanone	34%	108-94-1	(3)-2376	
Methyl ethyl ketone	26%	78-93-3	(2)-542	
Acetone	17%	67-64-1	(2)-542	
Resin (VC-VAc copolymer, etc.)	21%	9003-22-9	(6)-76	

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.
If note in ever	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.
<b></b>	Seek physician's counsel.
If swallowed:	Immediately wash the mouth with water.
	Immediately seek physician's counsel.
Anti-instal scate & sharping company	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 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
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.
<b>B</b>	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.
	Respirator in 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 completed.
Environmental hazard precaution:	Prevent flow out to rivers, 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.
1 6011110a1 1116a3u1 63.	No open flames.
Local & total ventilation:	Handling work must be practiced in a room where local or total ventilation
	facility is functioning.
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	Ch	Safe handling:	Prohibition of eat Wash hands well a Avoid contact of Do not inhale vap Handle it only aft	ing, drinking and smok after handling. the product with eye, oor, mist and spray of	the product. tanding all the precautions.	
	Storage					
		Storing conditions:	Store in a remote storage room. Store in a cool, v Lock the storage	entilated room.	rks and naked flame. No smoking ir	n the
8	Exposure control	s and personal protection				
0.	Facility measur		Local ventilation vapor inhalation.	of closed work room o	or total proper ventilation to preve	nt
			Cyclohexanone	Methyl ethyl ketone	Acetone	
	Control concor	tuation				
	Control concen Permissible cor exposure guide	ncentration (Exposure limit, Biological	20 ppm	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 wear	rs:				
		Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Use aspirator with Impermeable glov Solvent-resistant Long-sleeve fatig	goggles		
	Hygienic measu	· •	Wash hands well a			
9	Physical and che	mical properties				
0.	r nyoloar and ono	Physical state, form:			Liquid	
		Color:			Dark violet	
		Odor:			Characteristic stimulative odor	
		Melting point/freezing point:			−20°C or lower	
		Bp, initial bp & boiling range:			56.5°C (bp)	
		Flammability:			Highly flammable liquid and vapor	
		Evaporation rate:			No data available	
		Flash point:			-17°C (Closed Method)	
		Auto ignition point:			420°C	
		Decomposition temperature:			No data available	
		pH:			Not applicable	
		Dynamic viscosity:			ca. 560 mm²/s (20°C)	
		Solubilities:			Insoluble in water	
		n-Octanol/water partition coefficie	ent:(log Pow)		No data available	
		Vapor pressure: Specific gravity (density):			No data available ca. 0.91 (20°C)	
		Vapor density:			No data available	
		Particle characteristics:			No data available	
		Non-volatile content:			ca. 21%	
		Viscosity:			ca. 500 mPa•s	
10	. Stability and rea	activity				
	Stability:	-	Stable under norr	mal conditions and ha	ndling.	
	Possibility of ha	azardous reaction:	Vigorously reacts	with strong oxidizing	agents and ignites.	
	Prohibitive con		Heat			
Prohibitive contact:		Oxidizing agent				

Prohibitive contact: Hazardous decomposed substances:

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	34%	Category 4 (1544mg/kg)	Category 3 (947mg/kg)	Not classified	Category 3 (2,450ppm)	Not classified (8,000ppm)	
Methyl ethyl ketone	26%	Not classified (>2000mg/kg)	Not classified (>5000mg/kg)	Not classified	Category 4 (11,700ppm)	Classification not possible	
Acetone	17%	Not classified (>5000mg/kg)	Not classified (>5000mg/kg)	Not classified	Not classified (32,000ppm)	Classification not possible	
Resin (VC-VAc copolymer, etc.)	21%	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	
	Acute toxicity (or	ral):	in Appended Table ATE mix=1500 mg	e. The dose is calcula	cute toxicity (oral) of Ca ated for the mixture (the ategory 4.	-	
Acute toxicity (dermal): Acute toxicity (inhalation: vapor):			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 the mixture, falls in Category 4.				
			The product, as the mixture, fails in Category 4. 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/I The product, as the mixture, falls in Category 4.				
Skin corrosion/irr	ritation:		The product, as the mixture, fails in Category 4. The product contains skin-irritating substances of the following Categories: Category 2: Cyclohexanone (34%), methyl ethyl ketone (26%). The product, as the mixture, falls in Category 2.				
Eye damage/irritation:			The product, as the mixture, fails in Gategory 2. The product contains caustically injuring and irritating substances of the following Categories: Category 2A: Cyclohexanone (34%), methyl ethyl ketone (26%) Category 2B: Acetone (17%) The product, as the mixture, falls in Category 2A.				
Respiratory sensitization: Skin sensitization:			Respiratory organ sensitization: No data available. The product contains caustically injuring and irritating substances of the following Categories: Category 1: Cyclohexanone (34%). The product, as the mixture, falls in Category 1.				
Germ cell mutagenicity:			The product contains mutagenicity substances of the following Category: Category 2: Cyclohexanone (34%). The product, as the mixture, falls in Category 2.				
Carcinogenicity: Reproductive toxicity:			Respiratory organ sensitization: No data available. The product contains reproductive toxicity of the following Category: Category 2: Cyclohexanone (34%), acetone (17%) The product, as the mixture, falls in Category 2.				
Specific target organ toxicity (single exposure):			The product contains single-exposure toxic substances of the following Cyclohexanone $(34\%) > 1\%$ , Category 1 (respiratory), Category 2 (central nervous system) and Category 3 (narcotic effect), Methyl ethyl ketone $(26\%) > 1\%$ , Category 2 (kidneys) and Category 3 (respiratory tract irritancy). Acetone $(17\%) > 1\%$ , Category 3 (narcotic effect, respiratory tract irritancy). The product, as the 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 (34%) > 1%, Category 1 (bones, central nervous system), Methyl ethyl ketone (26%) > 1%, Category 1 (nervous system), Acetone (17%) > 1%, Category 1 (central nervous system, respiratory, digestive tract).				
Aspiration hazard:			The product, as the mixture, falls in Category 1 (respiratory, bones, digestive 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 20.5 mm2/s:				

#### 12. Ecological information

Hazard to the aquatic environment (Acute hazard):	Not classified		
Hazard to the aquatic environment (Long-term hazard):	Not classified		
Hazard to the ozone layer:	Does not contain any ingredients 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.		

Class 3 (Inflammable liquid)

Harmful liquid material

Π

Completely empty containers prior to disposal.

1133 (Adhesive, containing inflammable liquid)

The enforcement order separate table first; Z Group (Cyclohexanone, methyl ethyl ketone, acetone)

### 14. Transport information

International rule

UN number: UN classification: Packing Group: Sea Pollution Prevention Act

Domestic control:

Guidance Number
Onshore control info.
Offshore control info.
Air cargo control info.

Special safety measure:

15. Regulatory information Labor Safety and Hygiene Law:

Fire Defense Law:

PRTR Law: Poisonous & Deleterious Substance Control Law: Sea Pollution Prevention Act 128 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. Hazardous materials to be notified to the authority (Chapter 57, Section 2) (Cyclohexanone, methyl ethyl ketone, acetone) 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) 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 not applicable when net weight in one container is 5L or less.

However, it is not applicable when net weight in one container is 5L or less.

- 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.