Implementation: Sep.20,2011 Issue date: Jun.1,2025

SAFETY DATA SHEET

1. Product and company(manufacturer) identification

Product: **ESLON Adhesive No.100S** Manufacturer: Sekisui Chemical Co., Ltd. Address: **Responsible section:** +81-3-6748-6492 Telephone: Urgent telephone: +81-3-6748-6492 Fax: +81-3-6748-6564 Urgent contact: same as above **Application & restriction** Document number: #100S 2. Hazards identification

GHS Classification

Physicochemical hazards:

Health hazards:

Toranomon 2-10-4, Minato-ku, Tokyo 105-8566 Urban Infrastructure & Environmental Products Company Infrastructure and Building Pipe Systems Division Adhesive for chlorinated polyvinyl chloride piping system Other applications are prohibited.

Not classified **Explosives** Not classified Flammable gases Aerosols and chemicals under Not classified pressure Oxidizing gases Not classified Not classified Gases under pressure Flammable liquids Category 2 Flammable solids Not classified Self-reactive substances and Not classified mixtures Not classified **Pyrophoric liquids** Not classified Pyrophoric solids Self-heating substances and **Classification Not Possible** Substances and mixtures which, in Not classified contact with water, emit flammable gases Not classified Oxidizing liquids Not classified Oxidizing solids Not classified Organic peroxides Corrosive to metals Not classified **Classification Not Possible** Desensitized explosives 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 Category 2A Eye damage/irritation **Classification Not Possible** Respiratory sensitization Skin sensitization Category 1 Germ cell mutagenicity Category 2 Category 2 Carcinogenicity Reproductive toxicity Category 2 Specific target organ toxicity (single Category 1 (respiratory, central nervous exposure) system) Category 2(kidneys)

Environmental hazards:

Pictogram or symbol:

Specific target organ toxicity (repeated exposure) Aspiration hazard Hazard to the aquatic environment(Acute hazard) Hazard to the aquatic environment(Long-term hazard) Hazard to the ozone layer

Category 3 (narcotic effect, respiratory tract irritancy) Category 1 (liver, respiratory system, bones, nervous system, central nervous systems) Not classified Not classified

Not classified

Classification Not Possible



Signal word:	Danger (H202+H212+H222) Harmful if awallowed in contact with skin or if inhold
Hazard statement:	(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.
	(H351) Suspected of causing cancer.
	(H361) Suspected of damaging fertility or the unborn child.
	(H370) Causes damage to organs.(respiratory system, central nervous system) (H371) May cause damage to organs.(kidneys)
	(H372) Causes damage to organs through prolonged or repeated exposure.(liver respiratory, bones, nervous system, central nervous system)
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. (P:
	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 comforta 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)
	IF exposed or concerned: Get medical advice/attention. (P308+P313)
	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)
	Rinse mouth. (P330) If align invitation, approved Cat madical advice (attention, (P222+P212)
	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)
	In case of fire: Use for extinction: (P370+P378)
	Store in a well-ventilated place. Keep container tightly closed. (P403+P233) Store in a well-ventilated place. Keep cool. (P403+P235)
	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: Mix

Nature of composition:MixtureChemical or common name:Adhesiv

Adhesive, containing chlorinated polyvinyl chloride

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Cyclohexanone	38%	108-94-1	(3)-2376	
Tetrahydrofuran	36%	109-99-9	(5)–53	
Methyl ethyl ketone	10%	78-93-3	(2)-542	
Resin (CPVC)	15%	68648-82-8	(6)-75	
Tin compound	Less than 0.9%	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.
Il 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 cauta & abrania symptoms:	
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.
	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 the
aid	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 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
r revention of secondary casualty.	extinguishers ready for use.
	excinguishers 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:	
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.

Storage

Storing conditions:

Handle it only after reading and understanding all the precautions. Use the product only in a well ventilated room or outdoors.

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. 8. Exposure controls and personal protection Facility measures:

Local ventilation of closed work room or total proper ventilation to prevent vapor inhalation.

		innalation.		
		Cyclohexanone	Tetrahydrofuran	Methyl ethyl ketone
Control cond	centration:	20 ppm	50 ppm	200 ppm
Permissible o exposure gui	concentration (Exposure limit, Biologica de line)	l		
	Japan society for occupational health.	25 ppm	50 ppm	200 ppm
	ACGIH TLV-TWA	20 ppm	50 ppm	200 ppm
Protective w	ears:			
	Respiratory protection:	Use aspirator with	appropriate filter	
	Hand protection:	Impermeable glove	es	
	Eye protection:	Solvent-resistant	goggles	
	Skin and body protection:	long-sleeve fatigu	e uniform	
Hygienic mea	asures:	Wash hands well a	fter handling.	
Physical and c	chemical properties			
nysical and c	Physical state, form:			Liquid
	Color:			Colorless transparent
	Odor:			Characteristic stimulative odor
	Melting point/freezing point:			-20° C or lower
	Bp, initial bp & boiling range:			65.4°C (bp)
	Flammability:			Highly flammable liquid and vapo
	Evaporation rate:			no data available
	Flash point:			-17°C (Closed Method)
	Auto ignition point:			320°C
	Decomposition temperature:			no data available
	pH:		Not applicable	
	Dynamic viscosity:		ca.540(mm²/s)/20°C	
	Solubilities:		insoluble in water	
	n-Octanol/water partition coefficient:(log Pow)			no data available
	Vapor pressure:		no data available	
	Specific gravity (density):			ca.0.93(20°C)
				no data available
	Vapor density:			
	Vapor density: Particle characteristics:			no data available
	•			no data available ca. 16%

Stability:	Stable under normal conditions and handling.
Possibility of hazardous reaction:	Vigorously reacts with strong oxidizing agents and ignites.
Prohibitive conditions:	Heat
Prohibitive contact:	With oxidizing agent
Hazardous decomposed substances:	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	38%	Category 4 (1544mg/kg)	Category 3 (947mg/kg)	Not classified	Category 3 (2450ppm)	Not Classified (8000ppm)
Tetrahydrofuran	36%	Category 4 (1851mg/kg)	Classification Not Possible	Not classified	Not Classified (21000ppm)	Classification Not Possible
Methyl ethyl ketone	10%	Not Classified (2000mg/kg)	Not Classified (>5000mg/kg)	Not classified	Category 4 (11700ppm)	Classification Not Possible
Resin (CPVC)	15%	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=1695 mg/kg.
Acute toxicity(dermal):	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=1940 mg/kg.
Acute toxicity(inhalation: vapor):	The product, as a mixture, falls 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=5537 ppm.
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 (38 %), tetrahydrofuran (36 %), methyl ethyl ketone (10 %).
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 (38 %), tetrahydrofuran (36 %), methyl ethyl ketone (10 %).
Respiratory sensitization: Skin sensitization:	The product, as a mixture, falls in Category 2A. Respiratory organ sensitization: No available data. The product contains skin sensitization substances of the following Categories:
Germ cell mutagenicity:	Category 1: Cyclohexanone (38 %) The product, as a mixture, falls in Category 1. The product contains mutagenicity substances of the following Category: Category 2: Cyclohexanone (38 %).
Carcinogenicity:	The product, as a mixture, falls in Category 2. The product contains carcinogenic substances of the following Category: Category 2: tetrahydrofuran (36 %), The product, as a mixture, falls in Category 2.
Reproductive toxicity:	The product contains genotoxic substances of the following Category: Category 2: Cyclohexanone (38 %). The product, as a mixture, falls in Category 2.
Specific target organ toxicity (single exposure):	The product, as a mixture, fails in Category 2. The product contains single-exposure toxic substances of the following Categories: Cyclohexanone (38%)>1%, Category 1 (respiratory system), Category 2 (central
	nervous system) and Category 3 (narcotic effect), Tetrahydrofuran (36%)>1%, Category 2 (central nervous system) and Category 3
	(narcotic effect, respiratory tract irritancy), Methyl ethyl ketone $(10\%) > 1\%$, Category 2 (kidney) and Category 3 (narcotic
	effect, respiratory tract irritancy). The product, as a mixture, falls in Category 1 (respiratory system, central nervous system), Category 2 (kidneys) 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 (38%)>1%, Category 1 (central nervous system, bones),
	Tetrahydrofuran (36%)>1% Category 1 (central hervous system, bones), Tetrahydrofuran (36%)>1% Category 1 (respiratory, liver, nervous system), Methyl ethyl ketone (10%)>1%, Category 1 (nervous system). The product, as a mixture, falls in Category 1 (liver, respiratory, bone, nervous system, central nervous system).
Aspiration hazard:	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.
12. Ecological information	
Hazard to the aquatic environment(Acute hazard):	Not classified
Hazard to the aquatic environment(Long-term	Not classified

hazard): Hazard to the ozone layer:

13. Notes on disposal Residual & waste:

Contaminated containers & packages:

Does not contain any ingredient listed in the Annexes to the Montreal Protocol. 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 '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.	Fransport information				
	International rule				
	UN number:	1133 (Adhesive, containing inflammable liquid)			
	UN classification:	Class 3 (inflammable liquid)			
	Packing Group:	Π			
	Sea Pollution Prevention Act	Harmful liquid material			
		The enforcement order separate table first; Z Group			
		(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone)			
		However, it is non-corresponded when net weights of one container are less than 5L			
	Domestic control:				
	Guidance Number				
	Onshore control info.	Observe the Fire Defense Law.			
	Offshore control info.	Observe the Marine Vessel Safety Law. Observe the Aviation Law.			
	Air cargo control info.	Observe the Aviation Law. Observe the Fire Defense Law.			
	Special safety measure:	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)			
		(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone, Tin compound)			
		Hazardous materials to be posted (Chapter 18 of Ordinance)			
		(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone)			
		2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4)			
		(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone)			
		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, tetrahydrofuran, methyl ethyl ketone)			
	Fire Defense Law:	No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II)			
	PRTR Law:	Class I Designated Chemical Substance Tetrahydrofran			
	T I I I I I I I I I I I I I I I I I I I	Japan PRTR-SDS Number 674			
	Poisonous & Deleterious Substance Control Law:	Not applicable			
	Sea Pollution Prevention Act	Harmful liquid material			
		The enforcement order separate table first; Z Group			
		(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone)			
		However, it is non-corresponded when net weights of one container are less than 5L			
16.	Other information				
		afety Data Sheet (MSDS) Part 1: Content and Order of Items			
		MSDS Edition (Revised Edition) by Japan Chem. Ind. Assoc.			
		cation Database, Site of National Institute of Technology and Evaluation			
		book of Chemicals by Japan Industrial Safety and Health Association			
	5) Hazard com	nunication 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.