SDS Eslon #90C White 1/9

Implementation: Jun.25,2013 Issue date: Apr. 1, 2025

SAFETY DATA SHEET

Product:	any (manufacturer) identificatio	ESLON Adhesive No.90C White				
Manufacturer:		Sekisui Chemical Co., Ltd.				
Manufacturer.	Address:	Toranomon 2–10–4, Minato–ku, Toky	o 105–8566			
	Responsible section:	Urban Infrastructure & Environmenta Industrial Piping Systems Division				
	Telephone:	+81-3-6748-6489				
	Urgent telephone:	+81-3-6748-6489				
	Fax:	+81-3-6748-6553				
	Urgent contact:	Same as above				
Application & restriction		Adhesive for polyvinyl chloride piping Other applications are prohibited.	Adhesive for polyvinyl chloride piping system			
Document numb	er:	#90CW				
Hazards identifica GHS Classificati						
	Physicochemical hazards:	Explosives	Not classified			
		Flammable gases	Not classified			
		Aerosols and chemicals under	Not classified			
		pressure	Not classified			
		Oxidizing gases Gases under pressure	Not classified Not classified			
		Gases under pressure Flammable liquids	Not classified 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	Classification Not Possible			
		Substances and mixtures which, in contact with water, emit flammable	Not classified			
		gases Ovidining liquida	Net eleceticad			
		Oxidizing liquids Oxidizing solids	Not classified 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	Classification Not Possible			
		mist)				
		Skin corrosion/irritation	Category 2			
		Eye damage/irritation	Category 2A Classification Not Possible			
		Respiratory sensitization Skin sensitization	Classification Not Possible Category 1			
		Germ cell mutagenicity	Category 1 Category 2			
		Carcinogenicity	Category 2 Category 2			
		Reproductive toxicity	Category 2			
		Specific target organ toxicity (single	Category 1 (respiratory system, central			
		exposure)	nervous system)			
			Category 2(kidneys)			
			Category 3 (narcotic effect, respiratory tract irritancy)			
		Specific target organ toxicity	Category 1 (liver, respiratory system, bone			
		(repeated exposure)	central nervous system, nervous system)			
		Aspiration hazard	Not classified			
	Environmental hazards:	Hazard to the aquatic	Not classified			
		environment(Acute hazard)	Net descified			
		Hazard to the aquatic	Not classified			
		environment(Long-term hazard)				
		Hazard to the ozone lover	Classification Not Pessible			
		Hazard to the ozone layer	Classification Not Possible			
	Pictogram or symbol:	Hazard to the ozone layer				

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.

(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 system, 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.(P202) 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) 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 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)

Dispose of contents/container in accordance with local/regional/national/international regulations.(P501)

3. Composition/information on ingredients

Mixture

Nature of composition: Chemical or common name:

Adhesive, containing vinyl chloride-vinyl acetate copolymer

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Cyclohexanone	29%	108-94-1	(3)-2376	
Tetrahydrofuran	28%	109-99-9	(5)-53	
Methyl ethyl ketone	25%	78-93-3	(2)-542	
Resin (VC-VAc copolymer, etc.)	18%	9003-22-9	(6)-76	
Titanium oxide	Less than 1%	13463-67-7	(1)-558	

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
	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 mea						
Extinguishing agents: Prohibited extinguishing agent: Specific hazards:		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.				
Proper extinguis	shing method:			d 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 releas						
Health hazard p aid	recaution, protective wear and first−	Workers should us spilt adhesive and Rope off the crow	inhalation of its va	•		
		Work from the win In case of indoor le	dward and evacuat	e the leeward crowd. s much as possible until the cleaning is		
Environmental h Recovery and n	azard precaution: eutralization:	completed. 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 remove most of the spill and wipe off the rest using waste rug.				
Provention of a	aaandam, aaayaltar	place for recovery		ound the spill and lead the liquid to a safer		
Prevention of se	econdary casualty:	Quickly remove all extinguishers read		from around the leak spot and provide		
7. Handling and stor Handling	age precautions					
-	Technical measures:	Use protective we Fire ban.	ars if inhalation or	skin contact is foreseen.		
	Local & total ventilation:		t be practiced in a	room where local or total ventilation facility		
	Safe handling:	Ban of high tempe	ng, drinking and sm	sparking and fire at nearby points. oking while the product is used.		
		Avoid contact of t Do not inhale vapo Handle it only afte	ne product with ey r, mist and spray o r reading and unde	e, skin and clothing. If the product. rstanding all the precautions. ted room or outdoors.		
Storage	Storing conditions:	Store in a remote storage room. Store in a cool, ve		parks and naked flame. No smoking in the		
8. Exposure control	s and personal protection					
Facility measure		Local ventilation o inhalation.	f closed work room	n or total proper ventilation to prevent vapor		
Control concent	tuntinu.	Cyclohexanone 20 ppm	Tetrahydrofuran 50 ppm	Methyl ethyl ketone 200 maga		
	centration (Exposure limit, Biological	zo ppm	30 ppm	200 ppm		
	Japan society for occupational health.	25 ppm	50 ppm	200 ppm		
	ACGIH TLV-TWA	20 ppm	50 ppm	200 ppm		
Protective wear	'S:					
Respiratory protection: Hand protection: Eye protection:		Use aspirator with appropriate filter Impermeable gloves Solvent-resistant goggles Long-sleeve fatigue uniform				
Hygienic measu	Skin and body protection: res:	Wash hands well at				
9. Physical and che	mical properties					
	Physical state, form: Color:			Liquid White		
	Odor:			Characteristic stimulative odor		
	Melting point/freezing point: Bp, initial bp & boiling range:			-20°C or lower 65.4°C (bp)		
	Flammability:			Highly flammable liquid and vapor		
	Evaporation rate: Flash point:			No data available −17°C (Closed Method)		
	Flash point: Auto ignition point:			320°C		
	Decomposition temperature:			No data available		

pH: Dynamic viscosity: Solubilities: n-Octanol/water partition coefficient:(log Pow) Vapor pressure: Specific gravity (density): Vapor density: Particle characteristics: Non-volatile content: Viscosity: Not applicable ca.540 (mm²/s)/20°C Insoluble in water No data available No data available ca.0.93(20°C) No data available No data available ca. 19% ca. 500 mPa•s

10. Stability and reactivity
Stability:
Possibility of hazardous reaction:
Prohibitive conditions:
Prohibitive contact:
Hazardous decomposed substances:

Stable under normal conditions and handling. Vigorously reacts with strong oxidizing agents and ignites. Heat 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	29%	Category 4 (1544 mg/kg)	Category 3 (947 mg/kg)	Not classified	Category 3 (2450 ppm)	Not Classified (8000 ppm)
Tetrahydrofuran	28%	Category 4 (1851 mg/kg)	Classification Not Possible	Not classified	Not Classified (21000 ppm)	Classification Not Possible
Methyl ethyl ketone	25%	Not Classified (>2000 mg/kg)	Not Classified (>5000 mg/kg)	Not classified	Category 4 (11700 ppm)	Classification Not Possible
Resin (VC-VAc copolymer, etc.)	18%	Classification Not Possible	Classification Not Possible	Classification Not Possible	Classification Not Possible	Classification Not Possible
Titanium oxide	Less than 1%	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.
	The product, as a mixture, falls in Category 4.
Acute toxicity (dermal):	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.
	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=5537 ppm.
	The product, as a mixture, falls in Category 4.
Skin corrosion/irritation:	The product contains skin-irritating substances of the following Categories: Category 2: Cyclohexanone (29%), tetrahydrofuran (28%), methyl ethyl ketone (25%).
	The product, as a mixture, falls in Category 2.
Eye damage/irritation:	The product contains caustically injuring and irritating substances of the following Categories:
	Category 2A: Cyclohexanone (29%), tetrahydrofuran (28%), methyl ethyl ketone (25%).
	The product, as a mixture, falls in Category 2A.
Respiratory sensitization:	Respiratory organ sensitization: No available data.
Skin sensitization:	The product contains skin sensitization substances of the following Categories: Category 1: Cyclohexanone (29%)
Corm call mutaganiaity	The product, as a mixture, falls in Category 1.
Germ cell mutagenicity:	The product contains mutagenicity substances of the following Category: Category 2: Cyclohexanone (29%).
Carcinogenicity:	The product, as a mixture, falls in Category 2. The product contains carcinogenic substances of the following Category:
Carcinogenicity.	Category 2: Tetrahydrofuran (28%),
	The product, as a mixture, falls in Category 2.
Reproductive toxicity:	The product contains reproductive toxicity of the following Category: Category 2: Cyclohexanone (29%).
	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 (29%)>1%, Category 1 (respiratory system), Category 2 (central nervous system) and Category 3 (narcotic effect),
	Tetrahydrofuran(28%)>1%, Category 1 (central nervous system) and Category 3 (respiratory tract irritancy, narcotic effects),
	Methyl ethyl ketone (25%)>1%, Category 2 (kidneys) and Category 3 (respiratory tract irritancy, narcotic effects),
	The product, as a mixture, falls in Category 1 (central nervous system, respiratory system), Category 2 (kidneys), and Category 3 (respiratory tract irritancy, narcotic effects).
Specific target organ toxicity	The product contains multiple-exposure toxic substances of the following
(repeated exposure):	
	Cyclohexanone (29%)>1%, Category 1 (central nervous system, bones), Tetrahydrofuran (28%)>1% Category 1 (respiratory, liver, nervous system), Methyl ethyl ketone (25%)>1%, Category 1 (nervous system).

Aspiration hazard:

The product, as a mixture, falls in Category 1 (liver, respiratory system, bones, nervous system, central nervous system). 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	ation			
	Hazard to the aqu (Acute hazard):	uatic environment	Not classified		
	Hazard to the aquatic environment (Long-term hazard):		Not classified		
	Hazard to the ozo		Does not contain any ingredient listed in the Annexes to the Montreal Protocol. Classification Not Possible.		
13.	Notes on disposa				
	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 co	ntainers & 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 informa	tion			
	International rule	UN number:	1133 (Adhesive, containing inflammable liquid)		
		UN classification:	Class 3 (inflammable liquid)		
		Packing group: Sea Pollution Prevention Act	II Harmful liguid material		
		Sea Foliution Frevention Act	The enforcement order separate table first; Z Group		
			(Cyclohexanone, tetrahydrofuran, methyl ethyl ketone)		
	Domestic control		However, it is non-corresponded when net weights of one container are less than 5L		
	Domestic control	Guidance Number	128		
		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. 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 inform Labor Safety and		Hazardous materials to be notified to the authority (Chapter 57, Section 2)		
		Hygiene Law.	Cyclohexanone, Tetrahydrofuran, Methyl ethyl ketone, Titanium oxide 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 PRTR Law:	:	No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II) Class I Designated Chemical Substance Tetrahydrofuran		
			Japan PRTR-SDS Number 674		
	Poisonous & Dele Sea Pollution Pre	terious Substance Control Law:	Not applicable Harmful liguid 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		
16.	Other information	I	5L.		
. •	Literature:	1) Chemicals S	afety Data Sheet (MSDS) Part 1: Content and Order of Items		
			r MSDS Edition (Revised Edition) by Japan Chem. Ind. Assoc.		
			ication Database, Site of National Institute of Technology and Evaluation dbook of Chemicals by Japan Industrial Safety and Health Association		
			munication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS) JIS Z		

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.