SDS Eslon #73S UV 1/7

Implementation: Sep. 20, 2011 Issue Date: Apr. 1, 2025

### SAFETY DATA SHEET

1. Product and company (manufacturer) identification

ESLON Adhesive No.73S UV Product: Manufacturer: Sekisui Chemical Co., Ltd.

> Toranomon 2-10-4, Minato-ku, Tokyo 105-8566 Address:

Urban Infrastructure & Environmental Products Company Responsible section:

Infrastructure and Building Pipe Systems Division

Telephone: +81-3-6748-6492 Urgent telephone: +81-3-6748-6492 +81-3-6748-6564 Fax: **Urgent contact:** Same as above

**Application & restriction** Adhesive for polyvinyl chloride piping system

Other applications are prohibited.

Document number: #73S UV

2. Hazards identification **GHS Classification** 

> Physicochemical hazards: Not classified **Explosives** 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

Not classified Pyrophoric liquids Pyrophoric solids Not classified

Self-heating substances and mixtures Classification not possible

Not classified

Substances and mixtures which, in 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

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)

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)

Classification not possible

Category 1 (respiratory, bones, digestive Specific target organ toxicity (repeated exposure)

tract, nervous system, central nervous

system)

Aspiration hazard Not classified **Environmental hazards:** 

Hazard to the aquatic environment

(Acute hazard)

Hazard to the aquatic environment

(Long-term hazard)

Hazard to the ozone layer

Not classified

Not classified

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, bone, 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. (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 the 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)

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: 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	36%	108-94-1	(3)-2376	
Methyl ethyl ketone	27%	78-93-3	(2)-542	
Acetone	18%	67-64-1	(2)-542	
Resin (VC-VAc copolymer, etc.)	19%	9003-22-9	(6)-76	
Tin compound	Less than 0.3%	68109-88-6	(2)-3019	

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 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-

aid

Workers should use protective wears (See Chapter 8) to prevent contact with

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.

No open flames.

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.

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

420°C

No data available Not applicable

No data available

No data available ca. 0.90 (20°C)

No data available

ca.  $560 \text{ mm}^2/\text{s} (20^{\circ}\text{C})$ Insoluble in water

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.

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.

Cyclohexanone Methyl ethyl ketone Acetone Control concentration: 20 ppm 200 ppm 500 ppm Permissible concentration (Exposure limit, Biological

exposure guide line)

200 ppm Japan society for occupational health. 25 ppm 200 ppm ACGIH TLV-TWA 20 ppm 500 ppm 200 ppm

Protective wears:

Respiratory protection: Use aspirator with appropriate filter

Hand protection: Impermeable gloves Solvent-resistant goggles Eye protection: Skin and body protection: Long-sleeve fatigue uniform Hygienic measures: Wash hands well after handling.

9. Physical and chemical properties

Physical state, form: Liquid

Color: Colorless, transparent Odor: Characteristic stimulative odor

−20°C or lower Melting point/freezing point: Bp, initial bp & boiling range: 56.5°C (bp)

Flammability: Highly flammable liquid and vapor **Evaporation rate:** No data available -17°C (Closed Method) Flash point:

Auto ignition point:

**Decomposition temperature:** 

pH: Dynamic viscosity: Solubilities:

n-Octanol/water partition coefficient:(log Pow) Vapor pressure:

Specific gravity (density): Vapor density:

Particle characteristics: No data available Non-volatile content: ca. 19%

ca. 500 mPa•s Viscosity:

10. Stability and reactivity

Stability: Stable under normal conditions and handling.

Possibility of hazardous reaction: Vigorously reacts with strong oxidizing agents and ignites.

Prohibitive conditions: Heat

Prohibitive contact: Oxidizing agent

Generates Aldehyde, Acid and Organic matter by thermal decomposition. Hazardous decomposed substances:

# 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	36%	Category 4 (1544mg/kg)	Category 3 (947mg/kg)	Not classified	Category 3 (2,450ppm)	Not classified (8,000ppm)
Methyl ethyl ketone	27%	Not classified (>2000mg/kg)	Not classified (>5000mg/kg)	Not classified	Category 4 (11,700ppm)	Classification not possible
Acetone	18%	Not classified (>5000mg/kg)	Not classified (>5000mg/kg)	Not classified	Not classified (32,000ppm)	Classification not possible
Resin (VC-VAc copolymer, etc.)	19%	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.

The product, as the 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 the 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/I

The product, as the mixture, falls in Category 4.

Skin corrosion/irritation: The product contains skin-irritating substances of the following Categories:

Category 2: Cyclohexanone (36%), methyl ethyl ketone (27%).

The product, as the mixture, falls in Category 2.

The product contains caustically injuring and irritating substances of the

following Categories:

Category 2A: Cyclohexanone (36%), methyl ethyl ketone (27%)

Category 2B: Acetone (18%)

The product, as the mixture, falls in Category 2A. Respiratory organ sensitization: No data available.

The product contains caustically injuring and irritating substances of the

following Categories:

Category 1: Cyclohexanone (36%).

The product, as the mixture, falls in Category 1.

The product contains mutagenicity substances of the following Category:

Category 2: Cyclohexanone (36%).

The product, as the mixture, falls in Category 2. Respiratory organ sensitization: No data available.

The product contains reproductive toxicity of the following Category:

Category 2: Cyclohexanone (36%), acetone (18%) The product, as the mixture, falls in Category 2.

The product contains single-exposure toxic substances of the following Cyclohexanone (36%) > 1%, Category 1 (respiratory), Category 2 (central

nervous system) and Category 3 (narcotic effect),

Methyl ethyl ketone (27%) > 1%, Category 2 (kidneys) and Category 3

(respiratory tract irritancy).

Acetone (18%) > 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).

The product contains multiple-exposure toxic substances of the following Categories:

Cyclohexanone (36%) > 1%, Category 1 (bones, central nervous system),

Methyl ethyl ketone (27%) > 1%, Category 1 (nervous system),

Acetone (18%) > 1%, Category 1 (central nervous system, respiratory, digestive tract).

The product, as the mixture, falls in Category 1 (respiratory, bones, digestive tract, nervous systems, central nervous systems).

Acute toxicity (dermal):

Eye damage/irritation:

Respiratory sensitization: Skin sensitization:

Germ cell mutagenicity:

Carcinogenicity: Reproductive toxicity:

Specific target organ toxicity (single exposure):

Specific target organ toxicity (repeated exposure):

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

Not classified as the mixture.

12. Ecological information

Hazard to the aquatic environment

(Acute hazard):

Not classified

Hazard to the aquatic environment

(Long-term hazard): Hazard to the ozone laver: Not classified

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. Completely empty containers prior to disposal.

14. Transport information

International rule

UN number: 1133 (Adhesive, containing inflammable liquid)

128

Class 3 (Inflammable liquid) UN classification:

Packing Group:

Sea Pollution Prevention Act

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

Domestic control:

Special safety measure:

Guidance Number

Onshore control info.

Offshore control info.

Observe the Marine Vessel Safety Law.

Air cargo control info.

Observe the Aviation Law. Observe the Fire Defense 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.

15. Regulatory information

Labor Safety 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

Fire Defense Law: No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II) PRTR Law:

Poisonous & Deleterious Substance Control Law:

Sea Pollution Prevention Act

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.

16. 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 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.