SDS No.83S White 1/7page Implementation: Dec. 20, 2011 Issue Date: Jun. 1, 2024

SAFETY DATA SHEET

1. Product and company (manufacturer) identification

ESLON Adhesive No.83S White **Product:** Manufacturer: Sekisui Chemical Co., Ltd.

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

Urban Infrastructure & Environmental Products Company Responsible section:

Pipe Systems Division Telephone: +81-3-6748-6492 +81-3-6748-6492 Urgent telephone: Fax: +81-3-6748-6564

Urgent contact: Same as above **Application & restriction** Adhesive for polyvinyl chloride piping system

Other applications are prohibited.

Document number: #83S White

2. Hazards identification

GHS Classification

Physicochemical hazards: Not classified **Explosives**

Flammable gases Not classified Not classified Aerosols and chemicals under

pressure

Oxidizing gases Not classified Gases under pressure Not classified Category 2 Flammable liquids Flammable solids Not classified Not classified Self-reactive substances and

mixtures

Pyrophoric liquids Not classified Pyrophoric solids Not classified

Self-heating substances and Classification not possible

mixtures

Substances and mixtures which, in

contact with water, emit flammable

gases

Not classified Oxidizing liquids Oxidizing solids Not classified Organic peroxides Not classified Not classified Corrosive to metals

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

Not classified

Skin corrosion/irritation Category 2 Eye damage/irritation Category 2A Respiratory sensitization Not classified Skin sensitization Category 1 Germ cell mutagenicity Category 2 Category 2 Carcinogenicity Category 2 Reproductive toxicity

Specific target organ toxicity (single

exposure)

Category 1 (respiratory system, central

nervous system) Category 2 (kidneys)

Category 3 (narcotic effect, respiratory

tract irritancy)

Specific target organ toxicity Category 1 (liver, respiratory, bones, central

(repeated exposure) nervous system, nervous system)

Not classified Aspiration hazard

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

Not classified

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.

(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 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:

Chemical or common name: Adhesive, containing vinyl chloride-vinyl acetate copolymer

Component	Content	CAS Number	Reference Number in Gazetted List in Japan	Others
Cyclohexanone	25%	108-94-1	(3)-2376	
Tetrahydrofuran	13%	109-99-9	(5)-53	
Methyl ethyl ketone	43%	78-93-3	(2)-542	
Resin (VC-VAc copolymer, etc.)	19%	Registered	Registered	
Titanium oxide	Less than 1%	13463-67-7	(1)-558	
Tin compound	Less than 0.3%	68109-88-6	(2)-3019	Made in Japan
		15571-58-1	(2)-2307	Made in Taiwan

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.

First-aid provider should use protective wears such as organic solvent mask, when Protection of first-aid provider:

the circumstances require.

Special note to physician: No information

5. Fire-fighting measures

Carbon dioxide, powder agent, foam agent Extinguishing agents:

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

aid

Health hazard precaution, protective wear and first- 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.

Quickly remove all the combustibles from around the leak spot and provide Prevention of secondary casualty:

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.

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 Tetrahydrofuran Methyl ethyl ketone
Control concentration: 20 ppm 50 ppm 200 ppm

Permissible concentration (Exposure limit, Biological

exposure guide line)

Japan society for occupational health.25 ppm50 ppm200 ppmACGIH TLV-TWA20 ppm50 ppm200 ppm

Protective wears:

Respiratory protection: Use aspirator with appropriate filter

Hand protection:

Eye protection:

Skin and body protection:

Hygienic measures:

Impermeable gloves

Solvent-resistant goggles

Long-sleeve fatigue uniform

Wash hands well after handling.

9. Physical and chemical properties

Physical state, form:

Color:

Liquid
White

Odor: Characteristic stimulative odor

Melting point/freezing point:

By initial by & hoiling range:

65.4°C (bp)

Bp, initial bp & boiling range:

Flammability:

65.4°C (bp)

Highly flammable liquid and vapor

Evaporation rate:

Flash point:

No data available

-17°C (Closed Method)

Auto ignition point: 320°C

Decomposition temperature:

No data available

pH: Not applicable

Dynamic viscosity: ca. 410 mm²/s (20°C)

Solubilities: Insoluble in water

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

Vapor pressure:

Specific gravity (density):

Vapor density:

No data available

ca. 0.93 (20°C)

No data available

Particle characteristics:No data availableNon-volatile content:ca. 19%Viscosity:ca. 380 mPa·s

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

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	25%	Category 4 (1544mg/kg)	Category 3 (947mg/kg)	Not classified	Category 3 (2,450ppm)	Not classified (8,000ppm)
Tetrahydrofuran	13%	Category 4 (1851mg/kg)	Classification not possible	Not classified	Not classified (21,000ppm)	Classification not possible
Methyl ethyl ketone	43%	Not classified (>2000mg/kg)	Not classified (>5000mg/kg)	Not classified	Category 4 (11,700ppm)	Classification not possible
Resin (VC-VAc copolymer, etc.)	19%	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 the 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 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=5537 ppm.

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 (25%), tetrahydrofuran (13%), methyl ethyl ketone (43%).

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

The product contains caustically injuring and irritating substances of the following

Categories:

Category 2A: Cyclohexanone (25%), tetrahydrofuran (13%), methyl ethyl ketone

(43%).

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

Skin sensitization: The product contains skin sensitization substances of the following Categories:

Category 1: Cyclohexanone (25%)

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

Germ cell mutagenicity: The product contains mutagenicity substances of the following Category:

Category 2: Cyclohexanone (25%).

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

The product contains carcinogenic substances of the following Category:

Category 2: Tetrahydrofuran (13%),

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

Reproductive toxicity: The product contains reproductive toxicity of the following Category:

Category 2: Cyclohexanone (25%).

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

The product contains single-exposure toxic substances of the following

Categories:

Cyclohexanone (25%) > 1%, Category 1 (respiratory system), Category 2 (central

nervous system) and Category 3 (narcotic effect),

Tetrahydrofuran (13%) > 1%, Category 1 (central nervous system) and Category 3

(respiratory tract irritancy, narcotic effects),

Methyl ethyl ketone (43%) > 1%, Category 2 (Kidney) and Category 3 (respiratory

tract irritancy, narcotic effects),

The product, as the mixture, falls in Category 1 (central nervous system, respiratory system), Category 2 (kidneys), and Category 3 (respiratory tract

irritancy, narcotic effects).

Eye damage/irritation:

Respiratory sensitization:

Carcinogenicity:

Specific target organ toxicity (single exposure):

SDS No.83S White

Specific target organ toxicity

(repeated exposure):

The product contains multiple-exposure toxic substances of the following

Categories:

Cyclohexanone (25%) > 1%, Category 1 (central nervous system, bones). Tetrahydrofuran (13%) > 1% Category 1 (respiratory, liver, nervous system).

Methyl ethyl ketone (43%) > 1%, Category 1 (nervous system).

The product, as the mixture, falls in Category 1 (liver, respiratory system, bones,

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 20.5

Not classified as the mixture.

12. Ecological information

Not classified Hazard to the aquatic environment (Acute hazard):

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.

Clean the containers for reuse or dispose them properly in accordance with Contaminated containers & packages:

Harmful liquid material

relevant regulations and local government rules. Completely empty containers prior to disposal.

14. Transport information

International rule

UN number: 1133 (Adhesive, containing inflammable liquid)

UN classification: Class 3 (Inflammable liquid)

Packing group: Π

Sea Pollution Prevention Act

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

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

Domestic control:

Guidance Number

Onshore control info. Observe the Fire Defense Law. Offshore control info. Observe the Marine Vessel Safety Law.

Air cargo control info. Observe the Aviation Law. 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 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, 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: No. 4 Haz-Mat, No.1 Petroleum, Non-water soluble liquid (Hazard Degree II) PRTR Law:

Class I Designated Chemical Substance: Tetrahydrofuran

Japan PRTR-SDS Number 674

Poisonous & Deleterious Substance Control Law:

Sea Pollution Prevention Act

Not applicable

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

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.