SDS Eslon 110 1/7

Implementation: 2001-4-18 Issue date: Apr. 1, 2025

SAFETY DATA SHEET

1. Product and company (manufacturer) identification

Product: ESLON Adhesive No.110
Manufacturer: Sekisui Chemical Co., Ltd.

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

Responsible section:

Urban Infrastructure & Environmental Products Company
Industrial Pining Systems Pinings

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 rigid PVC piping system
Other applications are prohibited.

Document number: #110

2. Hazards identification GHS Classification

Physicochemical hazards:

Health hazards:

Explosives Not applicable Flammable gases Not applicable

Aerosols and chemicals under Not applicable

pressure
Oxidizing gases
Oxidizing gases
Oxidizing gases
Oxidizing gases
Oxidizing gases
Oxidizing gases
Not applicable
Flammable liquids
Flammable solids
Oxidizing gases
Not applicable
Self-reactive substances and
Oxidizing gases
Not applicable

mixtures

Pyrophoric liquids Classification not possible

Pyrophoric solids Not applicable

Self-heating substances and Classification not possible

Not applicable

Substances and mixtures which, in contact with water, emit flammable

gases

Oxidizing liquids
Oxidizing solids
Organic peroxides

Not applicable
Not applicable

Corrosive to metals Classification not possible Desensitized explosives Not applicable

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation: gas)

Acute toxicity (inhalation: vapor)

Category 4

Not applicable

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 Category 2
Reproductive toxicity Category 2

Specific target organ toxicity (single

exposure)

Category 1 (respiratory, central nervous

system)

Category 2 (kidneys)

Classification not possible

Category 3 (respiratory tract irritancy,

narcotic effect)

Specific target organ toxicity Category 1 (liver, respiratory, bones, repeated exposure) 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 Classification not possible

Classification not possible

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.

(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, 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 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 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

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	37%	108-94-1	(3)-2376	
Tetrahydrofuran	34%	109-99-9	(5)-53	
Methyl ethyl ketone	10%	78-93-3	(2)-542	
Resin (CPVC)	18%	68648-82-8	(6)-75	
Tin compound	Less than 1%	68109-88-6	(2)-3019	made in Japan
	Less than 1%	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, bake, 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:

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

Recovery and neutralization:

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

Environmental hazard precaution: 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.

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.

Fire ban.

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.

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 ppm
 50 ppm
 200 ppm

 ACGIH TLV-TWA
 20 ppm
 50 ppm
 200 ppm

Protective wears:

Respiratory protection: Use aspirator with appropriate filter

Hand protection:

Eye protection:
Skin and body protection:
Skin and body protection:
Skin and body protection:
Wash hands well after handling.

Hygienic measures:

9. Physical and chemical properties
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 vapor Evaporation rate: No data available Flash point: -17°C (Closed Method)

Auto ignition point: 320°C

Decomposition temperature:

pH:

No data available
Not applicable

Dynamic viscosity:

Solubilities:

Ca. 1,700 (mm²/s)/20°C
Insoluble in water

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

Vapour pressure:

Specific gravity (density):

No data available ca.0.95

 Vapour density:
 No data available

 Particle characteristics:
 No data available

Non-volatile content:

Viscosity:

ca. 21%

ca. 1600 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: 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	37%	Category 4 (1544 mg/kg)	Category 3 (947 mg/kg)	Not applicable	Category 3 (2450ppm)	Not Classified (8000 ppm)
Tetrahydrofuran	34%	Category 4 (1851 mg/kg)	Classification Not Possible	Not applicable	Not Classified (21000 ppm)	Classification Not Possible
Methyl ethyl ketone	10%	Not Classified (2483 mg/kg)	Not Classified (>5000 mg/kg)	Not applicable	Category 4 (11700 ppm)	Classification Not Possible
Resin (CPVC)	18%	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.

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.

The product contains skin-irritating substances of the following Categories:

Category 2: Cyclohexanone (37 %), tetrahydrofuran (34 %), methyl ethyl ketone (10

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

The product contains caustically injuring and irritating substances of the following

Categories:

Category 2A: Cyclohexanone (37 %), tetrahydrofuran (34 %),

Category 2B: Methyl ethyl ketone (10 %). The product, as a mixture, falls in Category 2A. Respiratory organ sensitization: No available data.

The product contains caustically skin sensitization substances of the following

Categories:

Category 1: Cyclohexanone (37 %)

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

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

Category 2: Cyclohexanone (37 %).

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

The product contains carcinogenic substances of the following Category:

Category 2: tetrahydrofuran (34 %).

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

The product contains genotoxic substances of the following Category:

Category 2: Cyclohexanone (37 %).

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

The product contains single-exposure toxic substances of the following

Cyclohexanone (37%)>1%, Category 1 (respiratory system), Category 2 (central

nervous system) and Category 3 (narcotic effect),

Tetrahydrofuran (34%)>1%, Category 1 (central nervous system) and Category 3

(respiratory tract irritancy),

Methyl ethyl ketone (10%)>1%, Category 2 (kidney) and Category 3 (respiratory

tract irritancy, narcotic effect).

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).

Acute toxicity (dermal):

Skin corrosion/irritation:

Eye damage/irritation:

Respiratory sensitization: Skin sensitization:

Carcinogenicity:

Reproductive toxicity:

Specific target organ toxicity (single exposure):

Specific target organ toxicity (repeated exposure):

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

Cyclohexanone (37%)>1%, Category 1 (central nervous system, bones), Tetrahydrofuran (34%)>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, 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

Category 2: Cyclohexanone (37 %), tetrahydrofuran (34%), methyl ethyl ketone (10

The product, as a mixture, falls Not Classified.

12. Ecological information

Hazard to the aquatic environment

(Acute hazard):

Hazard to the aquatic environment

(Long-term hazard):

Hazard to the ozone layer:

Classification Not Possible.

Classification Not Possible.

Does not contain any ingredient 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)

UN classification: Class 3 (inflammable liquid)

Packing Group:

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

Domestic control:

128 Guidance Number

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

Air cargo control info. 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.

Special safety measure:

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

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 & Deleterious Substance Control Law:

Sea Pollution Prevention Act

Fire Defense Law:

PRTR Law:

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.