Implementation: Sep. 20, 2011
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SAFETY DATA SHEET

1. Product and company (manufacturer) identification

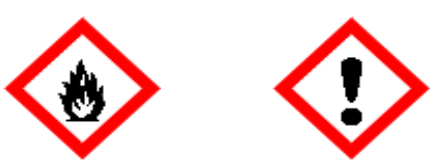
Product:	ESLON BV
Manufacturer:	Sekisui Chemical Co., Ltd.
Address:	Toranomon 2-10-4, Minato-ku, Tokyo 105-8566
Responsible section:	Urban Infrastructure & Environmental Products Company Infrastructure and Building Pipe Systems Division
Telephone:	+81-3-6748-6492
Urgent telephone:	+81-3-6748-6492
Fax:	+81-3-6748-6564
Urgent contact:	Same as above
Application & restriction	Adhesive for polyvinyl chloride piping system Other applications are prohibited.
Document number:	#BV

2. Hazards identification

GHS Classification

Physicochemical hazards:	Explosives	Not classified
	Flammable gases	Not classified
	Aerosols and chemicals under pressure	Not classified
	Oxidizing gases	Not classified
	Gases under pressure	Not classified
	Flammable liquids	Not classified
	Flammable solids	Category 1
	Self-reactive substances and mixtures	Not classified
	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 gases	Not classified
	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)	Classification not possible
	Acute toxicity (dermal)	Classification not possible
	Acute toxicity (inhalation: gas)	Not classified
	Acute toxicity (inhalation: vapor)	Category 4
	Acute toxicity (inhalation: dust and mist)	Classification not possible
	Skin corrosion/irritation	Classification not possible
	Eye damage/irritation	Category 2B
	Respiratory sensitization	Classification not possible
	Skin sensitization	Classification not possible
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (single exposure)	Category 3 (narcotic effect, respiratory tract irritancy)
	Specific target organ toxicity (repeated exposure)	Not classified
	Aspiration hazard	Not classified
Environmental hazards:	Hazard to the aquatic environment (Acute hazard)	Not classified
	Hazard to the aquatic environment (Long-term hazard)	Not classified
	Hazard to the ozone layer	Classification not possible

Pictogram or symbol:



Signal word: Danger

Hazard statement:

(H228) Flammable solid
(H320) Eye irritation
(H332) Harmful if inhaled.
(H335) May cause respiratory irritation.
(H336) May cause drowsiness or dizziness.

Precautionary statement:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. (P210)
Ground/bond container and receiving equipment. (P240)
Use explosion-proof electrical/ventilating/lighting equipment. (P241)
Avoid breathing gas/mist/vapors/spray/dust/fume. (P261)
Wash hands and eyes thoroughly after handling. (P264)
Use only outdoors or in a well-ventilated area. (P271)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)
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)
Call a POISON CENTER or doctor/physician if you feel unwell. (P312)
If eye irritation persists: Get medical advice/attention. (P337+P313)
In case of fire: Use for extinction: (P370+P378)
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
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
Ethyl acetate	61%	141-78-6	(2)-726	
Resin (VC-VAc copolymer, etc.)	30～35%	9003-22-9	(6)-76	
Silica (Amorphous)	1～5%	Registered	Registered	
Tin compound	Less than 0.5%	68109-88-6	(2)-3019	

※The content is listed as a range as it is confidential information.

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.
Do not compel the victim 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.

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.

Ethyl acetate

Control concentration: 200 ppm

Permissible concentration (Exposure limit, Biological exposure guide line)

Japan society for occupational health.	200 ppm
ACGIH TLV-TWA	400 ppm

Protective wears:

Respiratory protection: Use aspirator with appropriate filter.
Hand protection: Impermeable gloves
Eye protection: Solvent-resistant goggles
Skin and body protection: Long-sleeve fatigue uniform

Hygienic measures: Wash hands well after handling.

9. Physical and chemical properties

Physical state, form:	Paste
Color:	Black
Odor:	Characteristic, stimulative
Melting point/freezing point:	−20℃ or lower
Bp, initial bp & boiling range:	77℃ (bp)
Flammability:	Flammable
Evaporation rate:	Lower limit: 2.2vol%, upper limit: 11.5vol% (Ethyl acetate)
Flash point:	−4℃ (Closed Method)
Auto ignition point:	420℃
Decomposition temperature:	No data available
pH:	Not applicable
Dynamic viscosity:	ca. 65,000(mm^2/s)/20℃
Solubilities:	Insoluble in water
n-Octanol/water partition coefficient: (log Pow)	No data available
Vapor pressure:	No data available
Specific gravity (density):	ca. 1.1 (20℃)
Vapor density:	No data available
Particle characteristics:	No data available
Non-volatile content:	ca. 40%
Viscosity:	ca. 50,000 mPa・s

10. Stability and reactivity

Stability:	Stable under normal handling conditions.
Chemical stability:	Vapors may ignite and explode.
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.
Other:	Prolonged storage may lead to the formation of volatile gases, which may increase the pressure inside the container.

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)
Ethyl acetate	61%	Not classified	Not classified	Not classified	Category 4 (14,600 ppm)	Classification not possible
Resin (VC-VAc copolymer, etc.)	30～35%	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Silica (Amorphous)	1～5%	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible

Acute toxicity (oral):	The product, as the mixture, falls Not classified.
Acute toxicity (dermal):	The product, as the mixture, falls Not classified.
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=14,600 ppm. The product, as the mixture, falls in Category 4.
Skin corrosion/irritation:	The product, as the mixture, falls Not classified.
Eye damage/irritation:	The product contains caustically injuring and irritating substances of the following Categories: Category 2B: Ethyl acetate (61%). The product, as the mixture, falls in Category 2B.
Respiratory sensitization:	No data available
Skin sensitization:	No data available
Germ cell mutagenicity:	The product, as the mixture, falls Not classified.
Carcinogenicity:	The product, as the mixture, falls Not classified.
Reproductive toxicity:	The product, as the mixture, falls Not classified.
Specific target organ toxicity (single exposure):	The product contains single-exposure toxic substances of the following Ethyl acetate (61%)＞1%, Category 3 (respiratory tract irritancy, narcotic effect) The product, as the mixture, falls in Category 3 (respiratory tract irritancy, narcotic effect).
Specific target organ toxicity (repeated exposure):	The product, as the mixture, falls Not classified.
Aspiration hazard:	The product contains more than 10% in total of respiratory-harmful substances of the following Category, however, the kinematic viscosity at 40℃ is more than 20.5mm2/s: The product, as the mixture, falls Not classified.

12. Ecological information

Hazard to the aquatic environment (Acute hazard):	Not classified
Hazard to the aquatic environment (Long-term hazard):	Not classified
Ecotoxicity:	No information
Persistence/degradability:	No information
Ecological accumulative property:	No information
Mobility in soil:	No information
Hazard to the ozone layer:	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:	1325(Flammable solid , Organic , N.O.S.)
UN classification:	Class 4.1
Packing group:	Ⅱ
Sea Pollution Prevention Act	Harmful liquid material The enforcement order separate table first; Z Group (Ethyl acetate) However, it is not applicable when net weight in one container is 5L or less.

Domestic control:

Guidance Number	129
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)
Ethyl acetate, Tin compound
Hazardous materials to be posted (Chapter 18 of Ordinance)
Ethyl acetate
2nd class organic solvents (Solvent Addiction Prevention Rule, Clause 1.1.4)
Ethyl acetate
Workers handling substances and current substances subject to special health checks (Article 66, paragraph 2 of the Law, Article 22, paragraph 1 of the Enforcement Order).
Ethyl acetate
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).
Not applicable

Labor Standards Act: Disease-causing chemicals (Article 75 (2), Ordinance for Enforcement_Article 35, Appended Table 1-2 (iv)-1)

Fire Defense Law: Class 2 Flammable solids (Hazard class III)

PRTR Law: Not applicable

Poisonous & Deleterious Substance Control Law: Not applicable

Sea Pollution Prevention Act Harmful liquid material
The enforcement order separate table first; Z Group
Ethyl acetate
However, it is not applicable when net weight in one container is 5L or less.

Other Ordinance on Prevention of Dust Disorders
Silica (Amorphous)

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