

MATERIAL SAFETY DATA SHEET

MSDS No.TPO-01US

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name	ESPOLEX (TPE Series)		
Manufacturer	Sumitomo Chemical Co., Ltd. Synthetic Rubber & Elastomer Department Advanced Polymers Division 27-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8260, Japan TEL +81-03-5543-5452 FAX +81-03-5543-5277		
Emergency Telephone Numbers	Domestic North America	+1-800-424-9300	
	Asia Pacific (except China)	+65-3158-1074(Singapore)	
	China	+86-10-5100-3039(Beijing)	
	Europe & Israel	+44(0)-1235-239-670(UK)	
	Middle East & Africa	+44(0)-1235-239-671(UK)	

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	Thermoplastic elastomer (olefinic)
CAS No.	Trade secret

COMPONENT	CAS No.	% w/w
Trade secret	Trade secret	Trade secret

(See section 8 for exposure guidelines.)

3. HAZARDS IDENTIFICATION**Emergency overview**

(Clear to opaque, whitish or yellowish solid pellets or granules that present no immediate hazard.)

Avoid inhaling dust. Avoid contact with skin and eyes.

Can burn in fire, releasing hazardous gases and fumes.

Potential Health Effects

Inhalation	Dust can be a nuisance.
Eye contact	Some ingredients may cause irritation.
Skin contact	Some ingredients may cause irritation .
Ingestion	No information.
Chronic/ Carcinogenicity	No known effects. One component of this ingredient is listed as Group3 (Unclassifiable as to carcinogenicity to humans) by IARC.

4. FIRST AID MEASURES

First aid procedures	
Inhalation	Remove to fresh air. Give the victim rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Eye contact	Immediately hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses if worn.
Skin contact	Remove contaminated clothing. Wash skin with soap and water immediately. Get medical attention if irritation develops or persists.
Ingestion	Immediately rinse mouth with plenty of water and call a physician. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Note to physicians	No specific recommendations. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point and method	No information is available
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Extinguishing media	Use carbon dioxide or dry chemical for small fires; alcohol foam, universal foam or water spray for large fires.
Special fire-fighting procedures	Evacuate area of all unnecessary personnel. Wear appropriate safety equipments for fire conditions including self-contained breathing apparatus and other protective equipments or garments if exposure condition warrants. Use water fog or spray to cool exposed equipments and containers.
Hazardous decomposition products	Thermal decomposition will produce carbon monoxide, carbon dioxide, or low molecular weight alcohols/ aldehydes and acids.

6. ACCIDENTAL RELEASE MEASURES

General	Vacuum or sweep material and place in a disposal container. Keep walking surface free from spilled material to avoid a slipping hazard.
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7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from all ignition sources. Keep away from food, drink and animal feeding stuffs.
Storage	Store at ambient temperature, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Provide adequate ventilation. Keep container tightly closed.
Exposure limits	ACGIH [PNOS]Particles (Insoluble or poorly soluble) Not Otherwise Specified) 3 mg/m ³ (Respirable), 10 mg/m ³ OSHA [PNOR]Particulates not otherwise regulated 5 mg/m ³ (Respirable fraction), 15 mg/m ³ (Total dust)
Personal protective equipments	
General	Usual precautions for handling chemicals should be observed.
Respiratory	A dust respirator is recommended for prolonged handling or exposure.
Eye / face	Wear safety goggles to prevent contact with eyes.
Skin	Wear protective gloves of rubber.
Other	Wear protective clothing as appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid pellets
Color	White / Pale yellow/Black (It changes with grades)
pH	Not available
Vapor pressure	Not available
Vapor density	Not available
Boiling point	Not available
Melting point	100-170°C (It changes with grades)
Solubility in water	Insoluble
Solubility in other solvents	Not available
Density	860-1000kg/m ³ (It changes with grades)
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under normal recommended storage and handling conditions. (See Section 7)
Condition to avoid	Direct sunlight, source of heat, open flames, sparks and high temperature
Incompatibility	Oxidizing materials
Hazardous decomposition products	(See also section 5).
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

DATA

Acute oral effects	No information is available
Acute dermal effects	No information is available
Acute inhalation effects	No information is available
Eye effects	No information is available
Skin effects	No information is available
Chronic/Carcinogenic effects	No information is available concerning the toxicity of the product. The product is not listed for its carcinogenicity by IARC, NTP or OSHA. One component of this ingredient (Oil) is listed as Group3 (Unclassifiable as to carcinogenicity to humans) by IARC. Carcinogenic effects: Carbon (Black grade) Possible risk of irreversible effects. Carbon black is classified by: IARC: Group 2B possible human carcinogen. When encapsulated in a plastic matrix, risk of exposure is reduced.
Mutagenicity	No information is available
Teratogenicity	No information is available
Reproductive toxicity	No information is available

12. ECOLOGICAL INFORMATION

No information is available

13. DISPOSAL CONSIDERATIONS

May be buried on an authorized landfill site or be incinerated under approved controlled condition. Disposal should be in accordance with local, state and/or national legislation. The owner of the material is responsible for proper waste disposal.

14. TRANSPORT INFORMATION (not meant to be all-inclusive)

Not regulated. Transport under conditions in separate from strong oxidizer.

15. REGULATORY INFORMATION (not meant to be all-inclusive)

TSCA	The ingredients of this product are all on the TSCA Inventory list.
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16. OTHER INFORMATION

This information only concerns the above-mentioned product and does not need to be valid if used with other(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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