

Safety Data Sheet (SDS)

1. Product and the Company Identification

Product Name : PROTECO SHEET
Common name : Flame-spread prevention sheet
Company name : Furukawa Techno Material Co., Ltd.
Address : 5-1-8, HIGASHI-YAWATA, HIRATSUKA-CITY, KANAGAWA-PREF,
254-0016, Japan
Contact Office : Quality Assurance Department, Fire Prevention Division
Telephone number : +81-463-24-9341
Fax number : +81-463-24-9346
Emergency contact : +81-463-24-9341

Recommended applications and usage restrictions:

The product shall be used as a wound sheet for fire spreading prevention of cables, etc.

2. Hazards Identification

GHS Classification

Physicochemical hazards

Explosives	: Not applicable
Flammable gas	: Not applicable
Flammable aerosol	: Not applicable
Oxidizing gas	: Not applicable
Gases under pressure	: Not applicable
Flammable liquid	: Not applicable
Flammable solid	: Classification not possible
Self-reactive substance	: Classification not possible
Pyrophoric liquid	: Not applicable
Pyrophoric solid	: Classification not possible
Self-heating substance	: Classification not possible

Substance which, in contact with water, emits flammable gases:

Not applicable

Oxidizing liquid	: Not applicable
Oxidizing solid	: Not applicable
Organic peroxide	: Not applicable
Corrosive to metal	: Classification not possible

Health hazards

Acute toxicity (oral)	: Classification not possible
Acute toxicity (dermal)	: Classification not possible
Acute toxicity (inhalation: gases)	: Not applicable
Acute toxicity (inhalation: vapors)	: Not applicable
Acute toxicity (inhalation: dust/mist)	: Classification not possible
Skin corrosion/irritation	: Classification not possible
Serious eye damage/eye irritation	: Classification not possible
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)	: Classification not possible
Specific target organ toxicity (repeated exposure)	: Classification not possible
Aspiration hazard	: Classification not possible

Environmental hazards

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazard to the ozone layer	: No useful information
Persistence and degradability	: No useful information
Bioaccumulation potential	: No useful information
Mobility in soil	: No useful information

GHS Label elements

Symbols/Pictograms	: Not applicable
Signal word	: Not applicable
Hazard Statement	: Not applicable

Other hazards which do not result in GHS classification

Toxicity	: No useful information
Environmental hazards	: No useful information
Physical and chemical hazards	: The risk of fire is low when it is handled normally.
Vital sign	: None in particular
Outline of possible emergency	: None in particular
Information about country/region	: Not applicable

3. Composition/Information on Ingredients

Single chemical substance or mixture: Mixture

Composition /Chemical name	Chemical formula	Content (%)	Reference number in gazetted list in Japan*	CAS №	U.N. class
Alumina borosilicate glass Long fiber woven fabric	—	Nondisclosure	—	65997-17-3	Not restricted
Acrylonitrile butadiene rubber	-(CH ₂ -CH) _m -(CH ₂ -CH=CH-CH ₂) _n - CN		(6)-454	9003-18-3	Not restricted
Zinc borate	2ZnO · 3B ₂ O ₃ · 3.5H ₂ O		(1)-73	1332-07-6	3077
Aluminium hydroxide	Al(OH) ₃		(1)-17	21645-51-2	Not restricted
Carbon black	C		—	1333-86-4	1361
Softener material	Nondisclosure		—	—	—

*: Chemical Substances Control Law (JAPAN)

Law concerning Pollutant Release and Transfer Register / PRTR Law (JAPAN)

Cabinet Order on the Revised (promulgated on November 21, 2008)

Class I Specified Chemical Substances : Zinc borate

Industrial Safety and Health Act (JAPAN)

Chemical substances to be notified : Appendix №9 №130 Carbon black

4. First Aid Measures

Inhalation : Remove the victim from the contamination to fresh air.

Seek medical attention if necessary.

Skin contact : Not particularly-problematic. Seek medical attention if the victim has a skin allergy and experiences a problem with his/her skin.

Eye contact : Do not rub the eyes. Rinse the affected eyes with clean water for several minutes. Seek medical attention if necessary.

Swallowing : Wash the inside of the mouth and seek medical attention if necessary.

Most important signs and symptom : None in particular
Protection of first-aiders : None in particular
Special notes for doctors : None in particular

5. Fire-Fighting Measures

Extinguishing media : Powdery, carbon dioxide gas and other extinguishing agents are effective.
Unsuitable extinguishing media : Not specified
Specific hazards with regard to extinguishing : CO, CO₂ and other gases and black smoke are generated during combustion.
Specific fire extinguishing method : Carry out fire extinguishing activities from a windward direction. If there is no danger, remove the product from the fire area.
Protection for fire extinguishers : Wear respiratory protective gear to suit fire extinguishing activities.

6. Accidental Release Measures

Personal precautions : None in particular
Environmental precautions : None in particular
Methods for collect : None in particular

7. Handling and Storage

Handling : None in particular
Storage : To avoid deterioration and deformation, keep indoors at room temperature without exposure to rain, wind, sunlight, or heat.

8. Exposure Control and Personal Protection

Control parameters
Administrative exposure level : Not established
Occupational exposure limit value (OEL) : Not established
Exposure control
Countermeasure equipment : None in particular
Protective equipment : Wear masks, gloves, long sleeve clothes, hats, etc.

9. Physical and Chemical Properties

Physical state	: Solid (Form: Sheet)
Appearance (Color)	: Black
Odor	: Almost odorless
Melting point	: None
Relative density	: Nondisclosure
Solubility in water	: Insoluble
Solubility in organic solvents	: Soluble (especially toluene)

10. Stability and Reactivity

Reactivity, Chemical stability	: Nonflammable. Stable under normal handling and storage.
Possibility of hazardous reactions	: Not pyrophoric, not reactivity with water. Not oxidizing properties. Not self-reactivity or explosive. Not dust explosive.
Conditions to avoid	: No useful information
Incompatible materials	: No useful information
Hazardous decomposition product	: CO, CO ₂ and other gases and black smoke are generated when burned.

11. Toxicological Information

Acute toxicity (oral, dermal, inhalation: dust/mist)	: Classification not possible
Acute toxicity (inhalation: gases, inhalation: vapors)	: Not applicable
Skin corrosion / Irritation	: Classification not possible
Serious eye damage/eye irritation	: Classification not possible
Respiratory sensitization / 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)	: Classification not possible
Specific target organ toxicity (repeated exposure)	: Classification not possible
Aspiration hazard	: Classification not possible

12. Ecological Information

Hazard to the aquatic environmental (acute)	: Classification not possible
Hazard to the aquatic environmental (chronic)	: Classification not possible

Hazard to the ozone layer	: No useful information
Persistence and degradability	: No useful information
Bioaccumulation potential	: No useful information
Mobility in soil	: No useful information

13. Disposal Considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Disposal should be entrusted to authorized waste disposal companies.

14. Transport Information

UN No	: Not restricted
UN CLASS	: Not restricted
International Air Transportation (ICAO-TI/IATA-DGR)	: Not restricted
International Marine Transportation (IMDG Code)	: Not restricted

National Regulations:

Transport should be in accordance with national laws and regulations.

Others:

To avoid deterioration and deformation, transport without exposure to rain, wind, sunlight, or heat.

15. Regulatory Information

Fire Service Act (JAPAN)

: Not applicable.

Industrial Safety and Health Act (JAPAN)

: Chemical Substances Subject to Notification (Carbon Black)

PRTR Law (JAPAN)

: Zinc Borate (Chemical Substance No. 405/Boron Compound)

Water Pollution Prevention Act (JAPAN)

: Zinc borate (zinc 2mg/L or less, boron and its compounds 10mg/L or less)

Sewerage Act (JAPAN)

: Zinc borate (zinc 2mg/L or less, boron and its compounds 10mg/L or less)

Poisonous and Deleterious Substances Control Act (JAPAN)

: Not applicable

Air Pollution Control Act (JAPAN)

: Not applicable

Soil Contamination Countermeasures Act (JAPAN)

: Zinc Borate (Boron and its compounds specified in Article 2, paragraph 1 of the Law)

Act on Prevention of Marine Pollution and Maritime Disaster (JAPAN)

: Not applicable.

Ship Safety ACT (JAPAN)

: Not applicable.

Act on Prevention of Marine Pollution and Maritime Disaster (JAPAN)

: Not applicable.

Waste Management and Public Cleansing Act (JAPAN)

: Not applicable

16. Other information

Contact office : Quality Assurance Department, Fire Prevention Division

Telephone number : +81-463-24-9341

Warning:

This Safety Data Sheet has been prepared based on the latest materials and data available and its information is not guaranteed. It may be subject to revision depending on future findings.

The cautions described herein are targeted at usual treatment, and in case the users of this product implement special treatments, they are advised to take safety measures suitable for their purpose and usage.