

# SAFETY DATA SHEET

Establish:13th July 2010

Revision :08th Nov. 2019

## 1 . Chemical Product and Company Identification

Manufacture's Name	PASSTRAN MC-18
Company	MITSUI MINING & SMELTING CO.,LTD Engineered Powders Division in Main Office
Address	1-11-1 Osaki, Shinagawa-ku, Tokyo, 141-8584, Japan
Name of Section	Technology & Engineering Department
Telephone Number	(Country Code 81) 3-5437-8092 (Japan) (Telephone) (Country Code 81) 3-5437-8093 (Japan) (Facsimile)
Emergency Contact	Sales department +81-3-5437-8092

## 2 . Hazards Identification

Most Important Hazards	No significant target effects reported. This mixture is not classified under GHS.
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## 3 . Composition, Information On Ingredient

Substance/Mixture Mixture

Ingredients and Composition

	STANNIC OXIDE	95.5%
	METHYL HYDROGEN POLYSILOXANES	3.5%
CAS NO.	STANNIC OXIDE: 18282-10-5	
	METHYL HYDROGEN POLYSILOXANES: 63148-57-2	

## 4 . First Aid Measures

Inhalation	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.
Ingestion	If a large amount is swallowed, get medical attention.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.
Skin Contact	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.
Special Considerations for Physicians	None.

## 5 . Fire Fighting Measures

Suitable Extinguishing Media:

Regular dry chemical, carbon dioxide, water, regular foam.

Large fires: Use regular foam or flood with fine water spray.

Prohibited Extinguishing Media  
None.

Particular Fire Fighting  
None.

Particular Dangerous Harmful Nature  
None.

6 . Accidental Release Measures

Cautions for Personnel     Wear a respirator selected and appropriate personal protective equipment.

Cautions for Environment  
None.

Removal/Collection         Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7 . Handling and Storage

Handling                     None.

Storage                      Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

8 . Exposure Controls/Personal Protection

Occupational Exposure Limits  
PEL: 2 mg/m3 (Sn)

ACGIH                         TLV-TWA: 2 mg/m3 (I)

Engineering Measures     Provide adequate ventilation.

Respiration Protective Equipment  
The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. Measurement Element: Tin(Sn) 10 mg/m3 Any dust and mist respirator. 20 mg/m3 Any dust and mist respirator except single-use and quarter-mask respirators. Any supplied-air respirator.

Eyes Protective Equipment  
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protective Equipment  
Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.

9 . Physical and Chemical Properties

APPEARANCE ETC.         powder, white to gray.

Melting Point/Freezing Point  
Melting point (SnO2) : 1127

Ignition Point	Ignition Point (METHYL HYDROGEN POLYSILOXANES ) : > 200
Specific Gravity (Density)	6.0 g/cm <sup>3</sup> (20 )
Solubility	insoluble
10 . Stability and Reactivity	
Stability	Stable
Incompatible Conditions	Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials	halogens, reducing agents, metals
Hazardous Decomposition Products	None
Potentially Hazardous Reaction	Will Not Occur
11 . Toxicological Information	
Acute Toxicity	Inhalation: (SnO <sub>2</sub> ) May cause chest pain, dyspnea, rales, and leukocytosis. Repeated exposure may cause stannosis, a benign pneumoconiosis, without symptoms of interference of pulmonary function.  Ingestion: (SnO <sub>2</sub> ) Most tin salts are relatively non-toxic and poorly absorbed through the gastrointestinal tract. LD50 >20 gm/kg oral-rat LD50 >6600 mg/kg intraperitoneal-rat LD50 >20 gm/kg oral-mouse LD50 >6600 mg/kg intraperitoneal-mouse  Eye: (SnO <sub>2</sub> ) Particulates in the eye may cause lacrimation.  Skin:(SnO <sub>2</sub> ) It is not absorbed and is relatively innocuous to the skin.
Germ Cell Mutagenicity	No data available.
Reprotoxy	No data available.
Carcinogen	SnO <sub>2</sub> : No human carcinogen or potential carcinogen according to IARC Monographs, OSHA Regulation, and NTP
12 . Ecological Information	
Mobility	No data available.
Residual / Degradability	No data available.
Bioaccumulation	No data available.
Ecotoxicity	No data available.
13 . Disposal Considerations	

Residual Disposal (including itself)

SnO<sub>2</sub> :

Dispose in accordance with all applicable regulations.

METHYL HYDROGEN POLYSILOXANES :

Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment such as respirator. This product may evolve hydrogen gas, so buildings should be provided with an exhaust ventilation system to avoid accumulation of hydrogen gas evolved. Waste of this product should be segregated from other waste. Hydrogen gas in a waste container should be purged with air, then discarded. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.

14 . Transport Information

UN#: No classification assigned.

UN Shipping Name: No classification assigned.

UN Classification: No classification assigned.

UN Packing Group: No classification assigned.

Marine Pollutant: No.

Special Precautions: None.

15 . Regulatory Information

Safety, Health, and environmental regulations/legislation specific for the substance or mixture

EU Information:

Classification according to Regulation (EC) No 1272/2008:

Not classified.

Applicable Label Elements in accordance with Annex (EC) No.1272/2008:

Safety data sheet available on request.

EU ELV 91/322/ECC: Tin (inorganic compounds as Sn) 1 wt%

Specific Provisions in Relation to Protection of Man or the Environment:

(EC) No 1907/2006 Authorisation: Not regulated.

(EC) No 1907/2006 Restriction: Not regulated.

(EC) No 1005/2009: Not regulated.

(EC) No 649/2012: Not regulated.

Others: None.

USA Information:

Information on Label: Hazardous under OSHA HCS.

Signal Word: CAUTION!

Hazard warning: MAY CAUSE PNEUMOCONIOSIS

Safety Advice: Avoid breathing dust.

Keep container tightly closed.

Use only with adequate ventilation.

Hazard Component(s): Tin Oxide (CAS#: 18282-10-5) 95.5 wt%

16 . Other Information

Others

No other information is currently available for this record.

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Material Safety Data Sheet (MSDS) are made on the basis of literature and information. However it's inexhaustive, and the specification and information on MSDS aren't warranted. In addition, the Safety Precaution is aiming at the normal handling, not for the special handling.