

SAFETY DATA SHEET

1. IDENTIFICATION

Product ID : IWT-TSS xxxx.
Material uses : Filtration applications.

As supplied, the product is expected to pose no immediate health or fire hazard. Dusts generated during subsequent processing may pose the hazards described in this Safety Data Sheet.

Material restrictions : None known.

Manufacturer / Producer / Importer / Distributor information:

Company Name : 103 Whispering Pines Dr.
Address : Scotts Valley, CA 95066

Telephone : 831.226.2948

2. HAZARD IDENTIFICATION

Emergency Overview

Physical Hazard : Not Classified.
Health Hazard : Carcinogenicity.
OSHA Defined Hazards : Not Classified.

Category : 2

Label Element : 

Signal Word: : Warning

Hazard Statement(s) : Suspected of causing cancer by inhalation.

Precautionary Statement(s)

Prevention : The following prevention statements apply to the exposure to product dust. Do not handle until all safety precautions have been read and understood. Wear protective eye/face protection, gloves and clothing protection.

Response : If exposed or concerned: Get medical advice / attention.

Storage : Not available.

Disposal : Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified HNOC : None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures		CAS#	%
Chemical	Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide content greater than 18% by wt.		75 – 90%
	Other components below reportable levels		5 – 25%

4. FIRST-AID MEASURES

Inhalation : Move to fresh air. Call a physician if symptoms develop or persist.

- Skin Contact** : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Eye Contact** : Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
- Ingestion** : Rinse mouth. Get medical attention if symptoms occur.
- Symptoms and effects, acute and delayed** : Dusts may irritate the respiratory tract, skin and eyes.
- Recommendations for immediate medical care or special treatment needed** : Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
- General information** : If exposed or concerned, Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIREFIGHTING MEASURES

- Extinguishing media** : Water fog. Foam. Dry Chemical Powder. Carbon Dioxide (CO2).
- Unsuitable extinguishing media** : Not available.
- Special hazards arising from the substance or mixture** : Not available.
- Special protective equipment and precautions for fire fighting** : Not available.
- General fire hazards** : No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Not applicable for product in finished form.
 : In manufacturing and converting applications, normal work clothing (long sleeved and long pants) is recommended. Use NIOSH/MSHA approved dust respirator and goggles where ventilation is not possible and exposure limits may be exceeded.
- Environmental precautions** : Avoid discharge into drains, water courses or onto the ground.
- Methods and material for containment & cleaning up** : Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

- Precautions for safe handling** : Not applicable for product in finished form. In manufacturing and converting applications, wear appropriated personal protective equipment. Observe good industrial hygiene practices.
- Conditions for safe storage, including any incompatibilities** : Keep original product packaging. Store in a well-ventilated cool and dry place. Keep away from incompatible materials (see section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Particulates not otherwise regulated	PEL	5 mg/m3	Respirable fraction.

		15 mg/m3	Total Dust.
	US. OSHA Table Z-3 (29 CFR 1910.1000)		
Particulates not otherwise regulated	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total Dust.
		50 mppcf	Total Dust.
		15 mppcf	Respirable fraction.

	US. ACGIH Threshold Limit Values		
Particulates not otherwise regulated	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Inhalable particles.

	US. NIOSH: Pocket Guide to Chemical Hazards		
Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide content greater than 18% by wt.	TWA	3 fibers/cm3	Dust.
		3 fibers/cm3	Fiber.
		5 mg/m3	Fiber, total
		5 mg/m3	Fiber, total dust

- Biological limit values** : No biological exposure limits noted for the ingredient(s).
- Appropriate engineering controls** : As supplied, the product is expected to pose no immediate health or fire hazard.
- Exposure controls**
- Respiratory Protection** : Not necessary for product in finished form. In manufacturing and converting applications, Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume.
- Hand Protection** : Not necessary for product in finished form. In manufacturing and converting applications, wear appropriate protective gloves.
- Eye Protection** : Not necessary for product in finished form. In manufacturing and converting applications, wear appropriate protective safety glasses with side shields (or goggles).
- Skin Protection** : Not necessary for product in finished form. In manufacturing and converting applications, wear normal work clothing (long sleeved shirts and long pants) is recommended.
- General Hygiene** : Always observe good personal hygiene measures, such as washing after handling the material before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance:** Solid
- Color:** White
- Odor:** Odorless
- Boiling Point:** Not available.
- Vapor Pressure:** Not available.
- Vapor Density:** Not available.
- Melting Point:** Not available.
- Evaporation Rate:** Not available.
- Solubility in Water:** Not available.
- Flash Point:** Not available.
- Flammable Limits:** LEL: Not available.

	UEL:	Not available.
Relative density:		Not available.
Partition coefficient (n-octanol/water):		Not available.
Auto-ignition temperature:		Not available.
Decomposition temperature:		Not available.
Viscosity:		Not available.

10. STABILITY AND REACTIVITY

Reactivity	:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Material is stable under normal conditions.
Possibility of hazardous reactions	:	No Danger reaction known under conditions of normal use.
Conditions to avoid	:	Contact with incompatible materials. Avoid open flame and sparks.
Incompatible materials	:	Not available.
Hazardous decomposition products	:	No Hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	:	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	:	Not available.
Eye contact	:	Not available.
Ingestion	:	Not available.

Symptoms related to the physical, chemical and toxicological characteristics	:	Dusts may irritate the respiratory tract, skin and eyes.
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Information in toxicological effects

Acute Toxicity

Components	Species	Test Results
Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide content greater than 18% by wt.		
Inhalation		
NOAEL	Rat	> 30 mg/m ³ , 24 months, 6hr/d, 5d/wk

Skin corrosion/irritation	:	Prolonged skin contact may cause temporary irritation.
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Serious eye damage/eye irritation	:	Direct contact with eyes may cause temporary irritation.
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Respiratory or skin sensitization

Respiratory sensitization	:	Not available.
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Skin sensitization	:	This product is not expected to cause skin sensitization.
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Germ cell mutagenicity	:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity	:	Suspected of causing cancer by inhalation.
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NTP Report on Carcinogens	:	Reasonably Anticipated to be a Human Carcinogen.
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OSHA Specifically Regulated	:	Not listed.
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Substances (29 CFR
 1910.1001-1050)

- Reproductive toxicity** : This product is not expected to cause reproductive or developmental effects.
- Specific target organ toxicity - single exposure** : Not classified.
- Specific target organ toxicity - repeated exposure** : Not classified.
- Aspiration hazard** : Not available.
- Chronic effects** : Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Not expected to be harmful to aquatic organisms.
- Persistence and degradability** : No data is available on the degradability of this product.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- Other adverse effects** : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

- Disposal instructions** : Dispose of contents/container in accordance with local/regional/national/international regulations.
- Hazardous waste code** : The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- Waste from residues / unused products** : Dispose of in accordance with local regulations.
- Contaminated packaging** : Not available.

14. TRANSPORT INFORMATION

Not regulated as dangerous goods by the U.S. Department of Transportation.

15. REGULATORY INFORMATION

It is the user's responsibility to determine what regulatory information is relevant to the usage of this product.

- US federal regulations** : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - No



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Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.