MATERIAL SAFETY DATA SHEET

Wallshell® Thermal Panoply™ Rock Wool Panel

Section 1: Chemical Product and Company Identification

Product Name	Wallshell® Thermal Panoply™ Rock Wool Panel Series
Catalog Codes	TP--F-R-G; (See Product Specifications for details.)
Chemical Formula	Mixture
Manufacturer Name	Walpanel Inc.
Manufacturer Address	16701 Medford Blvd. Suite 400, Bowie, MD 20715, USA
Telephone (General Information)	1-888-998-4611
Telephone (Emergency)	911
Website	www.wallshell.com

Section 2: Composition / Information on Ingredients

Substance Name	UN#	CAS #	% in Weight
Calcium Silicate	Not a hazardous material for shipping	1344-95-2	57% ~ 58%
Rock Wool	Not a hazardous material for shipping	65997-17-3	31% ~ 32%
Polymer Cement Membrane	Not a hazardous material for shipping	65997-15-1 07631-86-9	9% ~ 10%
Fluorocarbon Coating **Magnesium Oxide** **Acetone**	Not a hazardous material for shipping	9011-17-0 1309-48-4 67-64-1	< 1 %

Section 3: Physical and Chemical Properties:

Physical State	Solid
Appearance	Various metallic or granite-like surface, grey-green core layer.
Odor	Earthy
Boiling Point	Not applicable
Melting Point	Approximate 1177 °C for rock wool; 1540 °C for calcium silicate.
Freezing Point	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity	2.7-2.9 for rock wool; 1.34 for calcium silicate.
pH	Not applicable for rock wool. 11 for calcium silicate board.
Percent Volatile	Not applicable for rock wool; 0 for calcium silicate.

Evaporation Rate	Not applicable for rock wool; Not applicable for calcium silicate.
Solubility in Water	Soluble in water
Flash Point	Not applicable. Non-combustible
Dispersion Properties	Not dispersed in water
Viscosity	Not applicable
Density	Depends on product (between 80 and 120 kg/m^3 for rock wool, 1.64 to 1.67 g/cm^3 for fiber cement,)

Section 4: Health Hazard Data

Potential Acute Health Effects:
Skin Contact: May result in redness and dermatitis; Symptoms include redness, irritation and itching.
Eye Contact: May cause temporary irritation. Symptoms include redness, irritation and pain.
Inhalation: Inhalation of this material may cause irritation to the nose, throat, and respiratory tract.
Ingestion: Not expected to be a normal route of entry. Ingestion of small amounts may cause gastrointestinal irritation.
Medical Conditions Aggravated by Exposure: Pre-existing Chronic respiratory, eye or skin conditions may be temporarily aggravated by exposure to the dusts and fibers.

Section 5: First Aid Measures

Specialized First Aid and Medical Treatment Are Required for All Exposures:
Eye Contact: If contact with eyes, immediately Remove any contact lenses and flush eyes with plenty of water for at least 15 minutes lifting the upper and lower eyelids occasionally. Do not rub the eyes. Seek medical attention if irritation persists.
Skin Contact: If irritation occurs, do not rub or scratch. Rinse under running water prior to washing with mild soap and water. Use a washcloth to help remove fibers. If irritation persists, seek medical attention.
Inhalation: Move to fresh air immediately if irritation occurs. Drink water and blow nose to clear dusts and fibers from throat and nose. If irritation persists, see medical attention.
Ingestion: Ingestion of this material is unlikely and not intended under normal conditions of use. If it does occur, rinse mouth with plenty of water to help remove dust and fibers, and drink plenty of water to help reduce potential gastrointestinal irritation. Do not induce vomiting unless direct to do so by a physician.
Notes to physician: Treat symptomatically.

Section 6: Fire Fighting Measures

General Information: The products are non-combustible and do not pose a fire hazard.
Suitable Extinguishing Media: Water fog, fine water spray, dry chemical powder, carbon dioxide.
Extinguishing Media that must NOT be used: None.
Fighting Procedures: Apply normal firefighting procedures.
Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (full bunker turnout gear).
Explosive Properties: Not applicable.
Upper Flammable Limit: Not applicable.
Lower Flammable Limit: Not applicable.
Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, combustion products can be carbon monoxide, carbon dioxide and trace gases at high temperature above 1177°C.

Section 7: Accidental Release Measures

Containment Procedures: Scoop up dusts and fibers after they have settled out of the air. These materials will disperse and settle along the bottom of waterways and ponds. It cannot easily be removed once it is waterborne, but is considered non-hazardous in water.
Cleanup Procedures: Use OSHA recommended work practices and protective equipment as described in Section Exposure Controls and Personal Protection of this Safety Data Sheet. Avoid generating airborne dusts and fibers during cleanup. Do not use compressed air. Vacuum dusts and fibers. Place material in an appropriate container for disposal as non-hazardous.
Response Procedures: Isolate area. Keep unnecessary personnel away. If dry methods or compressed air are used to collect dusts and fibers, all personnel in the area should wear OSHA-approved protective equipment (see Section Exposure Controls and Personal Protection of this Safety Data Sheet).

Section 8: Handling and Storage

Precautions: Use OSHA-recommended work practices and protective equipment when using the products (see section of Exposure Controls and Personal Protection of this Safety Data Sheet). Do not breathe dust. Do not rely on your sight to determine if dust is in the air.
Handling: Open material at application site to avoid unnecessary handling of product. Keep work areas clean. Avoid unnecessary handling of scrap material and debris by placing such materials in suitable containers, which should be kept close to work area as possible. Ensure good ventilation. Local exhaust ventilation may be required if the method of use produces dust

levels which exceed permissible exposure limits. Avoid excessive eye and skin contact with dusts and fibers. Use recommended cleanup procedures to avoid buildup of dusts and fibers in the work area.

Storage: Keep material in original packaging until it is to be used. Store material to protect against adverse conditions including precipitation.

Section 9: Exposure Controls and Personal Protection

Permissible Exposure Limit: (PEL):

Source	PEL	Exposure
OSHA	1 f/cc TWA (recommended)	Synthetic Vitreous Fibers (3 ~ 5 µm)
ACHIH	1 f/cc TWA (threshold limit value - TLV)	Synthetic Vitreous Fibers (3 ~ 5 µm)
OSHA	15mg/m³ TWA-PFI (total particulate) 5mg/m³ TWA-PFI (respirable particulate)	Inert dust and particulates not otherwise regulated
ACGIH	10mg/m TWA-TLV (inhalable particulate) 3 mg/m TWA-TLV (respirable particulate)	Particulates not otherwise classified, containing no asbestos and <1% crystalline silica

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limit. General dilution ventilation or local exhaust ventilation should be used as necessary to maintain exposures below permissible exposure limits. Dust collection systems should be used in machining operations and may be needed when using power tools. Follow OSHA-recommended work practices when spraying, installing or removing product. Follow OSHA- recommended safe handling practices listed on the OSHA website (http://www.osha.gov).

Personal Protective Equipment:

Respirators: In poorly ventilated areas when dusty conditions exist and/or dust levels exceed permissible exposure limits, wear a NIOSH certified dust respirator with an efficiency rating of N95 or higher. Use disposable face masks complying with NIOSH respirator standards, such as a 3M model 8210 (or 8710, or 9900 in high humidity environments) or equivalent. For exposure up to five times the established exposure limits use a quarter-mask respirator, rated N95 or higher; and for exposures up to 10 times the established exposure limits use a half-mask respirator (e.g. MSA's DM-11, Rascal's Delta N95, 3M's 8210), rated N95 or higher. For exposure up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.

Eyes: At a minimum wear safety goggles or full-face plastic shield when cutting the material in compliance with ANSI standard Z87.1-1-1989. Do Not wear contact lenses.

Skin: Wear loose fitting, long sleeved and long-legged clothing to prevent irritation. A head cover is also recommended, especially when working with material overhead. The use of suitable gloves is also recommended. Skin irritation cannot occur if there is no contact with the skin. Do not tape sleeves or pants at wrists or ankles. Remove fibers from work clothes, before leaving work to reduce potential skin irritation. If working in a very dusty environment it is advisable to shower and change clothes.

Section 10: Stability and Reactivity

Chemical Stability	Stable
Conditions to Avoid Contact with	Not applicable
Hazardous Decomposition Products:	Oxides of carbon and smoke would be produced at high temperatures above 1177°C with thermal decomposition.
Hazardous Polymerization	Will not occur
Corrosivity	Not applicable
Special Remarks on Reactivity	Will not occur

Section 11: Regulatory Information

USA HMIS	Health Hazard: 0 Flammability Hazard: 0 Physical Hazard: 0 Personal Protection: B
USA NFPA	Health Hazard: 0 Flammability Hazard: 0 Instability Hazard: 0 Special Hazard: None
USA TSCA	None of the chemicals in this product is on the health and safety list. None of the chemicals in this product is under the Chemical Test Rule.
USA Clean Air Act	Mineral wool fiber appears on the Clean Air Act-1990 Hazardous Air Pollutants List. None of the chemicals in this product has reportable quantities. None of the chemicals in this product has threshold planning quantities.
USA OSHA	This product does not contain any hazardous air pollutants. This product does not contain any class 1 ozone depleting substances. This product does not contain any class 2 ozone depleting substances

Section 12: Toxicological Information

Routes of Entry: Skin contact. Eye contact. Inhalation, Ingestion.
Acute Toxicity: Coarse fibers and dust from mineral wool products can cause temporary mechanical irritation (itching, redness) of the skin, and of the mucous membranes in the eyes and in the upper respiratory tract (nose and throat). The itching and possible inflammation are a mechanical reaction to dust and coarse fibers (of more than about 5 µm in diameter), and are not

damaging in the way chemical irritants may be. They generally abate within a short time after the end of exposure. When products are handled continually, the skin itching generally diminishes.
Chronic Toxicity: Inhalation: In October 2001, the International Agency for Research on Cancer (IARC) classified mineral wool fibers (rock or slag) as Group 3 (not classified as to carcinogenicity to humans).

Section 13: Deposal Considerations

Do not dump into any sewers, on the ground, or into any body of water.
All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Wastes are not hazardous as defined by the Resource Conservation and Recovery Act (RCRA;40 CFR 261). Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. As the product supplier, we have no control over the management practices of handling, using or disposing this material.

Waste Numbers: No EPA Waste Numbers are applicable for these products.

Section 14: Transportation Information

Classification: Not US Department of Transportation controlled material.
Identification: Not available.
Special Provisions for Transportation: Not available.

Section 15: Other Information

References: Not available.
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