# SAFETY DATA SHEET (SDS)

MANUFACTURER: ROCK WOOL MANUFACTURING COMPANY

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PREPAREDBY: Michael D. Fields

# SECTION I - PRODUCT NAME (s):

1. DELTA® -? A & -? BOARD, Unfaced Mineral Wool - all densities\*

- 2. DELTA® -? A & -? FLEX Mineral Wool BLANKET (No Metal Mesh)- all densities
- 3. DELTA®-CW?A BOARD, Unfaced & Faced Mineral Wool all densities
- 4. DELTA® FACED BOARD, Mineral Wool all densities\*
- 5. DELTA® LAMELLA, Mineral Wool all facings all densities\*
- 6. DELTA® -? A & -? MARINE BOARD, unfaced Mineral Wool all densities\*
- 7. DELTA® METAL-MESH BLANKET, Mineral Wool all facings all densities
- 8. DELTA® SAFING BOARD, Mineral Wool all thickness(s)
- 9. DELTA® SA-FIRE BOARD, Sound Attenuation Mineral Wool all thickness(s)
- 10. DELTA® BASEMENT BOARD, Mineral Wool all thickness(s)
- 11. DELTA® DECK PLUGS, Trapezoid Shaped Mineral Wool Strips
- 12. DELTA® -? A CUT BOARD, Mineral Wool Narrow Strips- all densities

#### **SECTION II - PRODUCT INGREDIENTS**

1. Chemical Name: Mineral Wool Fiber CAS Number: None Assigned

Common Name(s): Rock Wool, Slag Wool, Mineral Wool Batt or Felt

Exposure Limits: OSHAPEL ACGIHTLV OTHER Total Dust  $15 \text{mg/M}^3$   $10 \text{mg/M}^3$  N.A.

Respirable Dust 5mg/M<sup>3</sup> 5mg/M<sup>3</sup> 1 f/cc (Respirable)\*\*

Percent 94% to 99.5% (Workplace Exposure Guideline)

\*\* Under the acceptance of the Health & Safety Partnership Program, Rock Wool Manufacturing Company recommends a maximum workplace exposure of 1 respirable fiber/cc.

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2. Chemical Name: Modified Urea extended Phenolic Cured Resin

CAS Number: 25104-55-6

Common Name(s): Binder, Thermal Set Resin, Resin

Exposure Limits: OSHAPEL ACGIHTLV OTHER

N.A. N.A. N.A.

Percent from 0.08 % to 3 %

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<sup>\*</sup> See HEAT-UP PRECAUTIONS in SECTION IX

3. Chemical Name:	Petroleum Hydrocarbon						
	CAS Number None Assigned						
Common Name(s): A	nti-dust Oil, Inc	lustrial Oils	s,Oil				
Exposure Limits:				OTHER			
	N.A.			N.A.			
Percent 0.019	6 to 0.5						
4. Chemical Name: Adh							
Applied to Faced 1	Applied to Faced Insulations as an adhesive (Except <b>DELTA®-CW?A BOARD</b> )						
CAS Number:	None Assigned, an article						
Common Name(s):							
Exposure Limits:				OTHER			
	N.A.	]	N.A.	N.A.			
PercentLess t							
5. Chemical Name: Cont				ether with phen	nolic cured		
resin; applied with	adhesive to va	rious Board	d Products as a	Facing/Substa	rate.		
CAS Number:	65997-17-3						
Common Name(s)	Fiber Glass Ma	at, Dura-Gl	ass Laminating	Mat			
Exposure Limits:				OTHER			
Total Dust				N.A.			
Respirable Dust	•	5 mg/s	$M^3$	1 f/cc**			
Percent Less							
** Under the acceptance of the Health & Safety Partnership Program, Rock Wool Manufacturing							
Company recommends a maximum workplace exposure of 1 respirable fiber/cc.							
5ASubpart of Fiber Glass Mat. The following shows ingredients included in the							
composition of the bonded continuous filament fibrous glass.							
Chemical Name: Modified Urea extended Phenolic Thermal Set Cured Resin							
CAS Number: 9011-05-6 Common Name(s): Binder, Thermal Setting Resin, Resin							
Exposure Limits	OSHA PEL ACGIH TLV OTHERS						
ExposureEning	N. A.		N.A.	N.A.			
Percent Less			11.71.	14.74.			
Lost							
6. Chemical Name: Vap	or Retarder Fac	ing for Insi	ılation (Lamin	ated kraft pape	er, continuous		
*	s glass, & alumi	•	,		,		
	one Assigned,	· · · · · · · · · · · · · · · · · · ·	•	0 1			
Common Name(s):	_		J)Facing,Foil-		FSK) Facing		
Percent Less	than 1%				,		
6A. Subpart of Vapor Re	etarder Facing:	Γhe followi	ng shows ingre	edients include	d in the		
manufacturer o	f the facings plus	s self-sealir	ıg lap.				
Components	CA	S No.	OSHA PEL		GIHTLV		
Filament Fibrous Glas	ss 6599	7-17-3	N.A.		$0 \text{mg/M}^3$		
Antimony Tri-Oxide		-64-	$0.5 \text{ mg/M}^3$		$mg/M^3$		
Decabromodiphenyl	oxide 1163	3-19-5	$5 \mathrm{mg/M}^3$	5 n	ng/M <sup>3</sup>		

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#### SECTION III - PHYSICAL DATA

**Boiling Point:** N.A. Vapor Density: (air=1) N.A. Specific Gravity: Variable Re-Melting Point (Mineral Wool): >2000°F. Re-Melting Point (Fil. Fibrous Glass):>1600°F. Pure/Mixture: Mixture Vapor Press ure: N.A. % Volatile by Volume: N.A. Solubility in H<sub>2</sub>0: None Evaporation Rate: N.A.

Appearance and Odor: Yellowish in color. No appreciable odor. Some products have a aluminum foil, white kraft paper laminate, glass mat, or metal mesh facing.

#### SECTION IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (°F.): Incombustible; Resin will pyrolyze at sustained temperatures above 500°F.

Flammability Limits: LEL= N.A. UEL= N.A.

Auto-Ignition Temperature (°F): N.A.

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Unusual Fire and Explosion Hazards\*: No unusual fire and explosion hazards. However, paper and foil facings of some products can burn. Special care should be taken when

working close to facings with any type of open flame.

Special Fire Fighting Instructions: Self-contained/supplied-air breathing apparatus is recommended.

## \* See **HEAT-UP PRECAUTIONS** in SECTION IX

# SECTION V - REACTIVITY DATA

Stability (conditions to avoid): Materials are stable.

Incompatibility (materials to avoid): Aluminum Foil may chemically react to high pH materials such as uncured portland cement with the presents of water.

Hazardous Decomposition Products: Facing, adhesive, and binder (resin) burns or decomposes in a fire causing acrid smoke. Decomposition products are carbon monoxide, carbon dioxide, carbon particulates and water.

Hazardous Polymerization: Will notoccur

## SECTION VI-HEALTHHAZARDDATA

Primary Route(s) of Entry: Inhalation, skin, and eye contact

Inhalation:

Acute: The release of mineral fibers during normal handling may cause short term irritation to the nose and/or throat.

Chronic: The International Agency for Research on Cancer (IARC), has classified mineral wool as a group 3 ("not classifiable as to carcinogenicity to humans").

#### SkinContact:

Acute: May cause transitory mechanical dermatitis. Skin absorption does not occur.

Chronic: None known

Eye Contact:

Acute: Direct contact will cause mechanical irritation.

Chronic: None known

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### SECTION VI - HEALTH HAZARD DATA (continued...)

# Ingestion:

Acute: Unlikely to occur under normal conditions of use. If ingested, it may cause temporary irritation to the gastrointestinal (GI) tract (especially the stomach). Observe individual; if symptom develop, consult a physician.

Chronic: None known

HMIS Rating- Health: 1, Fire: 0, Reactivity: 0, Other: 0 NFPA Rating- Health: 1, Flammability: 0, Reactivity: 0

WHMIS Class- D2D-Irritant Delta products are not controlled products

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Aggravated Medical Conditions: Pre-existing upper respiratory and lung diseases may be aggravated by dust.

The product is a mechanical irritant for skin, eyes, and upper respiratory system

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Carcinogenicity: NTP Listed IARC Classified OSHA Regulated No Yes No

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### Emergency & First-Aid Procedures:

Inhalation: Remove from exposure. Drink water to clear throat and blow nose to evacuate fibers.

Skin Contact: Frequent washing of skin surface with water to remove accumulated fibers will minimize irritation. If irritation persists consult a physician. Treat as a mechanical irritant.

Eye Contact: Flush eye with flowing water until irritation stops. If symptoms persist, seek medical attention.

Ingestion: Product in not intended to be ingested or eaten. If this product is ingested, irritation of the GI (gastrointestinal) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

#### SECTION VII - SPILL, LEAK & DISPOSAL PROCEDURES

Action to take for spills: Normal clean-up procedures. Avoid creating dust.

Waste Disposal Method: Mineral wool fiber products are generally classified as a non-hazardous waste and disposal may be in land fill for noncritical materials.

Local regulations should be consulted.

EPA Hazardous Waste Number: N.A.

These materials are not regulated under the "RCRA" hazardous waste regulations.

# SECTION VIII - SPECIAL PROTECTION INFORMATION (During Installation or Removal.)

Ventilation: Use sufficient natural or mechanical ventilation to maintain airborne dust concentration below Threshold Limit Value (TLV).

Respiratory Protection: Should the Permissible Exposure Limits (PEL) of RESPIRABLE fiber or dust in Section II of this MSDS be exceeded, use a NIOSH approved N-95 respirator.

Eye and Face: Safety glasses, goggles or face shields should be worn when materials are being handled, fabricated, or applied especially overhead.

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SECTION VIII - SPECIAL PROTECTION INFORMATION (During Installation or Removal) General: Wear long-sleeved, loose fitting clothing, gloves and head covering. Wash work clothes separately from other clothing to prevent possible mineral wool fiber migration to other clothes. Rinse washer after use.

### SECTION IX - SPECIAL PRECAUTIONS AND OTHER COMMENTS

Handling and Storage:

Keep materials under cover, dry and minimize the generation of dust. Care should be taken to protect faced products from open flames and other sources of ignition. Care should be taken to protect hands when handling metal mesh facings with sharp edges.

HEAT-UP PRECAUTIONS: During initial heat-up in excess of 500°F.(260°C.), binder decomposition occurs. Smoke and an acrid odor may be produced. Adequate ventilation must be provided against fumes. If personnel and fumes are present, all areas and adjacent areas must be well ventilated.

### **SECTION X - Footnotes and ABBREVIATIONS:**

ACGIH (U.S.)	American Conference of Governmental Industrial Hygienists
ACOIII (0.5.)	Afficial Conference of Governmental industrial rygicilists

CAS (U.S.) Chemical Abstract Service

EPA (U.S.) Environmental Protection Agency

IARC(Int'l.) International Agency for Research on Cancer

LEL Lower exposure Limit

N. A. Not Applicable or Not Assigned

NIOSH National Institute of Occupational Safety and Health

NTP (U.S.) National Toxicology Program

OSHA (U.S.) Occupational Safety and Health Administration

PEL (U.S.) Permissible Exposure Limit

RCRA (U.S.) Resource Conservation and Recovery Act

TWA Time Weighted Average TLV Threshold Limit Value UEL Upper Exposure Limit

The responsibility to provide a safe workplace remains with the user. As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, THEMANUFACTURER MAKES NOWARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

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