Rockwool Insulation Products

SECTION 1: IDENTIFICATION OF THE MATERIAL

Product Name: Rockwool

Product Codes/Trade Names: Rock wool, Stone wool

Recommended Use:
Thermal and Acoustic Insulation, including fire protection and energy conservation. Used in homes, public and commercial buildings, warehouses, industrial and petrochemical plants, motor vehicles, ships, public transport, marine, power station and white goods. Also used as a hydroponic growing medium.

Applicable In: Egypt –Al-Sadat city
Supplier: GLASSROCK Insulation Company
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Telephone: +202 25 192548
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Because Rockwool Insulation products manufactured or sold in Egypt by GLASSROCK Insulation Company are classified as NON-HAZARDOUS, a Material Safety Data Sheet (MSDS) is not strictly required under Egyptian Regulations. This model MSDS is issued by GLASSROCK Insulation Company (written GR in the text) for the information of users, installers and the community. It has been formatted in accordance with the Code on Preparation of a Material Safety Data Sheet 2004 Safe Work (NOHSC).
The information in this MSDS must not be altered, deleted or added to. GR will not accept any responsibility for any changes made to its MSDS by any other person or organization. GR will issue new MSDS when a relevant change in product specifications and/or ASCC standards, codes, guidelines, or Regulations will occurs

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SECTION 2: HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Classified as Non-Hazardous according to the criteria of the OSHA Approved Criteria for Classifying Hazardous Substances. GLASSROCK Rockwool is classified as Non-Dangerous Goods according to the OSHA Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Synonyms	Proportion:	CAS Number:
Mineral wool fiber (amorphous,		>85%	-

non-crystalline.			
Thermoset binder (fiber binding agent)		<15%	25104-55-6
Mineral oil (dust suppression agent)		<2%	8012-95-1
Note: Traces (<0.1%) of volatile original components of binder may remain in recently manufactured product.			

SECTION 4: FIRST AID MEASURES

Swallowed:	Rinse lips and mouth with water.
Eyes:	Flush with clean water. If discomfort persists, seek medical attention.
Skin:	Flush off with water, preferably running. If itch or discomfort persists, seek medical attention.
Inhaled:	Remove to fresh air. If symptoms persist, seek medical attention.
Advice to Doctor:	Any symptoms and signs of ill-health are likely to be due to other causes. Can be slightly itchy on prolonged contact with skin. Does not produce any acute or chronic health effects. Treatment should be directed toward cleansing the skin and symptomatic treatment as necessary

SECTION 5: FIRE FIGHTING MEASURES

Flammability:	Non flammable, will not burn.
Suitable extinguishing media:	As needed for surrounding fire conditions. Any extinguishing media may be used as required. Water fog may be used to cool intact containers and nearby storage areas
Hazards from combustion products:	GLASSROCK Rockwool is non-flammable, but the plastic wrapping, binder, and some facings may decompose, smolder or burn in a fire or when heated above 300ºC. If product is present in a fire, toxic gases or smoke may be evolved depending on surrounding fire conditions.
Fire Fighting Procedures:	As needed for surrounding fire conditions. If required, evacuate area and contact emergency services; remain upwind and notify those downwind of fire hazard; and wear protective equipment including Self-Contained Breathing Apparatus
HAZCHEM Code:	None allocated.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment Procedure:
If product is torn or loose, cover or reseal to minimize fiber release. Reuse where possible or place in a sealable plastic bag for disposal according to local authority
Clean Up Procedure:
Personnel directly involved in clean-up of loose material should wear personal protective equipment as described in Section 8. Clean area so as to avoid dispersion of loose material or fibers using wet sweep methods or vacuum cleaner.

SECTION 7: HANDLING AND STORAGE

Handling:
These products are safe in use. Once installed, the product does not release dust or fibers. Handling, installing or removing the product may result in some dust and airborne fiber. Minimize eye or skin contact and inhalation during handling, installation and removal (see Section 8). Observe good personal hygiene, including washing hands before eating. Remove personal protective equipment before entering eating areas.

Storage:
Store in sealed container in cool, dry area, removed from foodstuffs. Ensure packages are adequately labeled, protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.

SECTION 8: EXPOSURE CONTROLES / PERSONAL PROTECTION

National Exposure Standards:
None allocated for GLASSROCK Rockwool products, which may be regarded as nuisance dusts. GR recommends following the Egyptian National Occupational Exposure Standard (ENES) general guide to keep all occupational exposures to dust and other atmospheric contaminants to as low a level as is workable (practicable). For non-hazardous nuisance dusts: 2.0 mg/m3 TWA for inspirable dusts and/or 10 mg/m3 TWA for total dust (of any type, or particle size) is recommended.

Notes on Exposure Standards:
Exposure Standard (TWA) is the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should not impair the health or cause undue discomfort to nearly all workers.

Biological Limit Values: Not applicable



Ventilation:
During most applications and installation no special ventilation will be required. However, if installing in dusty or poorly-ventilated areas, or during the first heat up cycle in high-temperature industrial applications, local exhaust ventilation should be considered. Work practices should aim to minimize the release of, and exposure to, fibers and/or dust. Hand tools generate the least amount of dust and fibers. If power tools are used directly on the product appropriate dust collection systems are recommended

Special Consideration for Repair and/or Maintenance of Contaminated Equipment
Work areas should be cleaned regularly, vacuuming or wet sweeping is suggested. Use of personal protective equipment as outlined below is recommended during work in areas or on equipment where this product has been installed.

PERSONAL PROTECTION EQUIPMENT

Personal Hygiene

Washing of exposed skin with soap and water at the end of a shift or as required is recommended as a comfort measure.

Skin Protection:
Direct skin contact can be minimized by wearing long-sleeved shirts and long trousers, a cap or hat, and standard duty gloves conforming to Egypt standard. Work clothes should be washed regularly and separately from other clothes. Comfort sleeve gloves are recommended for improved comfort when handling and installing Rockwool Insulation.

Eye Protection:
When handling these products, particularly overhead or in enclosed or poorly ventilated areas such as ceiling spaces or risers, eye contact with dust or fiber can be avoided by wearing ventilated non-fogging dust resistant goggles conforming to OSHA standard

Respiratory Protection:
None normally required. If dust is generated in enclosed or poorly-ventilated areas, an approved particulate respirator conforming to OSHA Standards. P1, P2 or N95 type respirators are appropriate. Use only respirators that bear the OSHA mark and are fitted and maintained correctly, and kept in clean storage when not in use.

Smoking & Other Dusts:
Inhalation of airborne particles from other sources, including those from cigarette smoke, may increase the risk of lung disease. GR recommends that all storage and work areas should be non-smoking zones, and other airborne contaminants be kept to a minimum.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A matt of brown, yellowish or grayish fibrous material resembling wool. It is supplied in different shapes and sizes wrapped in plastic. It may be rigid or flexible. Facings such as aluminum foil, calico tissues, wire mesh, and synthetic tissues are applied to meet specific purposes
Odor:	Usually odorless but may have faint odor
pH, at stated concentration:	Not applicable
Vapor Pressure/Density:	Not applicable
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Boiling Point/range (°C):	Not applicable
Melting Point (°C)	>1000 °C
Solubility in water:	Negligible
Specific Gravity (H2O = 1):	Generally low, but variable depending on facings
Decomposition Temperature	Up to 820°C (Depending on product) – contact your local GR office or refer operating temperatures on data sheets for further information (Binder decomposition at 150^{o}C)

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Volatile Organic Compounds (VOC) content/Percent Volatiles:	Very low; <1% (Actual recorded value below detection limit for test method)

FLAMMABLE MATERIALS	
Flash Point:	Not applicable
Flash Point Method:	Not applicable
Flammable (Explosive) Limit - Upper	Not applicable
Flammable (Explosive) Limit - Lower:	Not applicable
Auto-ignition Temperature:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:
Stable. The cured binder is stable and will remain intact for the life of the product under normal atmospheric conditions.

Incompatible Materials:
No reported incompatibilities. Acids, alkalis or organic solvents may cause degradation of binder.

Hazardous Reactions / Decomposition Products:
None known

Toxicology data:
The fiber component of these products is classified by OSHA as Mineral Wool (Not Elsewhere Specified). In accord with EU ATP 31 (2009) these fibers are not classified as irritant, and being bio-soluble they are not regarded as carcinogenic. GLASSROCK Rockwool fibers manufactured in Egypt (since 2012) are bio-soluble, which means that any fibers inhaled into the lungs dissolve in body fluids and are then cleared from the lungs. They are certified as having low bio persistence, e.g. after inhalation, as specified under Note Q as listed in the OSHA Hazardous Substances Information System and in the OSHA Approved Criteria documentation. Fibers of these products comply with the short-term bio-persistence test and fulfill the requirements of OSHA and international authorities on bio solubility and international authorities do not classify mineral wool fibers with high bio solubility as carcinogenic or as capable of causing fibrosis. Fibres are generally clumped by the binder and single strand reparable fiber is present only in trace amounts when any dust is formed in the workplace during installation. Bound fiber is not of re separable size. Extensive research over the past 50 years on workers handling these fibers and products in many countries has shown that the inspirable and re-spiracles size fibers are not harmful, having no long term health effects or respiratory effects.
Toxicology test data is generally not available on the products, but acute toxicity estimated as being very low with LD50 >5000 mg/kg.



Health Effects: Acute (short-term)

Swallowed:

Unlikely in normal use, but may result in temporary itching of the lips, mouth and throat. Attempting to swallow large amounts would be expected to cause gagging and possibly vomiting.

Eyes:
May cause eye discomfort resulting in watering and redness.

Skin:
Handling repeatedly during installation may cause temporary itching of exposed skin. This is not an allergy and usually disappears quickly.

Inhaled:
Unprotected exposure to high levels of dust of these products (during installation or removal) may cause discomfort of the nose, throat, and upper and lower respiratory tract, especially in persons suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

Note: Products used in high temperature applications (above 177^{o}C) may release fumes from the bonding binder during initial heat-up. In these applications and where suitable protective equipment is not worn (see Section 8), then some irritation to the eyes, nose, throat and respiratory tract may occur. In confined or poorly ventilated areas, may be recommended to use air-supplied respirators during the first heat-up cycle.

Health Effects: Chronic (long-term)
There are no known long-term health effects.

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SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity:
This product is not classified as a hazardous air pollutant. No specific data is available on eco toxicity, but estimations based on toxicity information suggest that the materials in these products are not toxic to fish, birds, insects or organisms in the environment. No harm to fish or wildlife would be caused by this product.

Persistence and Degradability:
GLASSROCK Rockwool is bio-soluble and in most ecosystems it would be expected to get solved over a period of weeks to months. Binder-coated insulation wool is hydrophobic, and no adverse environmental effects would be expected if accidentally released in water or soil.

Ozone Depleting Potential
As referenced in the US EPA list of Ozone Depleting Substances (Class 1 and Class 2), no Ozone depleting Substances are involved in either the manufacture or composition of this product & therefore has an ozone depletion potential of zero

Place in plastic bags or containers and close or seal for disposal in accordance with local authority guidelines. Label as NON-HAZARDOUS insulation wool or as general

building waste (non-hazardous), as appropriate to assist local Authorities waste disposal sites. Department of Environment and Climate Change NSW classifies Rockwool as General Solid Waste, and local authorities will usually advise any local handling arrangements at their disposal sites.

SECTION 14: TRANSPORT INFORMATION

Transport Requirements:	GLASSROCK Rockwool Insulation products are not classified as Dangerous Goods and have no special transport requirements.		
UN number:	None allocated	**Subsidiary Risk 1:**	None allocated
DG Class:	None allocated	**Packaging Group:**	None allocated
HAZCHEM code:	None allocated		

SECTION 15: REGULATORY INFORMATION

Poisons Schedule:
Not scheduled. No specific regulatory requirements are applicable regarding occupational health and safety, consumer protection or environmental protection measures.

SECTION 16: OTHER INFORMATION

For further information on this product, please contact:

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