



CAN-ROSS ENVIRONMENTAL SERVICES LTD.
1-2340 Winston Park Drive, Oakville, ON L6H 7T7 CANADA

TRADE NAME: Enviro-Dri™ Universal Absorbent
PRODUCT CODE: 410SJ, 1550P

SECTION 01 : CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Identifier: Un-Expanded Perlite (Raw Crude Ore), All Grades: G-12, G-20

Product Class: Amorphous Sodium Potassium Aluminum Silicate

Product Use: Insulation, Construction, Industrial, and Horticultural Applications

DISTRIBUTOR'S NAME: Can-Ross Environmental Services Ltd.
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SECTION 02 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2B

2.2 Label elements, GHS-US labelling

Product Identifier: Perlite (Un-Expanded) CAS# 93763-70-3



Irritant

Signal Word: WARNING

Symbol(s):

Hazard statement(s): May cause mild skin irritation. May cause eye irritation.
Respiratory Irritant.

Precautionary statement(s):

Prevention

Treat as a nuisance dust. Avoid creating dust. Use adequate ventilation.
NIOSH approved respirator or dust mask recommended. NIOSH approved dust goggles recommended.

Response

Flush eyes with clean water. Wash skin with mild soap and water. Remove to fresh air.

Supplemental Instructions, based on route of entry:

Skin contact: Repeated or prolonged contact may cause irritation due to drying effect of perlite.

Skin absorption: N/A

Eye contact: May irritate or injure eyes, mechanically

Inhalation: Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions due to drying effect. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

Ingestion: LD₅₀ not established, presumed over 10,000 mg/kg

Sensitization: Non-sensitizing

Emergency Overview: The fine particle size products represent inhalation hazards that can readily be controlled with appropriate dust protection equipment. Avoid processes that generate unnecessary dust.



WHMIS Symbols:

Potential Health Effects: See above regarding long term exposure: skin irritation, silicosis and eye irritation

2.3 Other hazards not contributing to the classification: N/A

SECTION 03 : COMPOSITION / INFORMATION on HAZARDOUS INGREDIENTS

Product Description/Components: Expanded perlite powder or granules,
CAS# 93763-70-3

<u>Hazardous Ingredients</u>	<u>CAS#</u>	<u>%</u>	<u>ACGIH</u>		<u>OSHA PEL, mg/cu.m</u>
			<u>TLV, mg/cu.m</u>	<u>NIOSH, mg/cu.m</u>	
Quartz	14808-60-7	<0.001*	0.025 (Respirable)	0.05 (Respirable)	0.1 (Respirable)

Quartz: Oral, rat LD₅₀: >20,000 mg/kg LC₅₀: Not Available

*Reads as (less than one tenth of one percent)

SECTION 04 : FIRST AID MEASURES

Skin Contact: Wash off with soap and water. Skin lotion will quickly replace oils lost due to drying effect of perlite.

Eye Contact: Flush eyes with plenty of water.

Inhalation: Remove to fresh air. Seek medical attention if victim is not breathing or uncomfortable.

Ingestion: Do not induce vomiting. Rinse mouth.

SECTION 05: FIRE AND EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

Flammable: No. Packaging may be flammable.

Means of Extinction: Use extinguishing media appropriate for surrounding material.

Explosion Data - Sensitivity to Impact: N/A

Explosion Data - Sensitivity to Static Discharge: None, unless mixed with combustible materials.

Hazardous Combustion Products: N/A

NFPA: Health: 0, Flammability: 0, Reactivity: 0, Other: None

HMS Ratings: Health: *(See SDS), Flammability: 0, Reactivity: 0, Personal Protection: E

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Wetting spilled material with water may control dust and make clean up easier.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid creating unnecessary dust.

Storage Requirements: Store with other dusty materials, away from products that could be affected by dust.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

Exposure Limits

ACGIH TLV: 10 mg/m³ total dust

3 mg/m³ respirable dust

OSHA PEL: 15 mg/m³ total dust

5 mg/m³ respirable dust

Engineering Controls

General: Good housekeeping rules apply

Local Exhaust from work stations using this material

Recommended Personal Protective Equipment:

- ☐ Plastic or Rubber Gloves if skin irritation occurs
- ☐ Respirator – NIOSH/OSHA/MSHA approved dust respirator adequate for contaminant concentrations encountered.
- ☐ Eye protection recommended
- ☐ Disposable footwear for frequent handling of this material
- ☐ Coveralls for frequent handling of this material

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid powder or granules

Odor and Appearance: White to off white powder or granules with no odor

Odor Threshold (ppm): N/A

Specific Gravity: 2.35

Vapor Density (air=1): N/A

Vapor Pressure (mmHg): N/A

Evaporation Rate: N/A

Boiling Point (°C): N/A

Freezing Point (°C): N/A

Flash Point (°C) and Method (open cup or closed cup): N/A
Upper Flammable Limit (% by volume): N/A
Lower Flammable Limit (% by volume): N/A
Autoignition Temperature (°C): N/A
pH: 6.5 – 7.5, as 10% slurry in distilled water
Coefficient of Water/Oil Distribution: N/A
Solubility in Water: Negligible

Visual Detection Method Only

SECTION 10: STABILITY AND REACTIVITY

Chemically Stable?: Yes

Incompatibility with other substances?

Yes: Hydrofluoric acid (HF)

Reactivity, and under what conditions?: Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid.

Hazardous Decomposition Products: See above

SECTION 11: TOXICOLOGICAL INFORMATION

Effects of Acute Exposure: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), or in case of inhalation (irritant).

Effects of Chronic Exposure:

Irritancy of Product: Potential for creating skin dryness.

Respiratory Irritation: Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis). For a comprehensive review, see:

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4002636/>

Carcinogenicity: These products contain less than 0.001% (less than one tenth of one percent) crystalline silica, and low percentages of particles of respirable size, hence present very low risk.

IARC: Not reviewed

ACGIH: PNOS (Particulates Not Otherwise Specified), Not carcinogenic

Reproductive Toxicity: Not available

Teratogenicity: Not established

Embryotoxicity: Not available

Mutagenicity: Ames: Not available

SECTION 12: ECOLOGICAL CONSIDERATIONS

Aquatic Toxicity: Low hazard for usual industrial or commercial handling. Approved for use in soils.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of this product in accordance with all applicable local, Provincial and Federal regulations.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information

DOT: No special requirements

IMO: Non-hazardous

ICAO: Non-hazardous

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D2B (Toxic)

OSHA: Label as required by Hazard Communication Standard 29 CFR 1910.1200 (f) and applicable state and local laws and regulations

TSCA: Included as a naturally occurring material

CANADA DSL: Included or exempt

SECTION 16: OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

DISCLAIMER: Can-Ross believes the above information to be reliable. Handling of this product shall be restricted to qualified persons. Users must make their own tests when mixing this product with any other product or using it in any process which may alter its properties. Can-Ross assumes no responsibility whatsoever from any such usage.

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