

HEALTH AND SAFETY DATA SHEET

EXPANDED PERLITE

1. IDENTIFICATION

1.1 Commercial Name(s): Expanded Perlite: CRYO

1.2 Producer and Supplier: **Chemrock Cryogenics**
Scheepzatestraat 100
9000 Gent
BELGIUM

Telefoon: +32-9-250.95.60

Telefax: +32-9-250.95.59

2. CHEMICAL COMPOSITION

Perlite is a Natural Complex Aluminium, Potassium and Sodium Silicate not chemically treated. Dicalite Perlite is chemically inert and contains less than 1% Crystalline Silica.

CAS Nr.: 93763-70-3

Registration number REACH : Exempted according to art.2 par 7b.

3. HAZARD INFORMATION

- Expanded Perlite causes an annoying but reversible effect on the lungs by inhalation. This annoying dust causes no organic disease or has no toxic influence on the organism.
- Expanded perlite has no bearing (supporting) power. When plunging in expanded perlite there is a risk on suffocation.

Doc.nr. CCC 48 – 023		Date: 01/03/2002	
Project		Updated	24/09/2007
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Reg nr.: FC 20921
<http://www.dicalite-europe.com>

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4. FIRST AID PROCEDURE

4.1 Inhalation:

Remove from dust area, drink water to clear throat; blow nose to evacuate dust.

4.2 Eye irritation:

Do not rub! Flush eyes immediately with copious amounts of water. Consult a physician if irritation persists.

4.3 Skin irritation: None

4.4 Swallow: None

4.5 Falling into expanded perlite : Secure yourself against falling (see risk assessments in Doc CCC48-004 "Safety manual")

5. FIRE- AND EXPLOSION HAZARDS

None. Perlite is inert and non-flammable. (It is used in fire extinguishers.)

6. PROVIDE AGAINST ESCAPE OF DUST

6.1 Personal prevention:

- The wearing of an approved respirator and a safety eyewear (3M 7000 series with P3 filters) shall be used.
- When working in zones where the perlite layer is more than 1 m high, wearing a harness and attaching to lifeline to avoid falling into the perlite.

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6.2 Ecology prevention: None. Dispose to nominated landfill.

6.3 Spill and leak procedure: Vacuum clean.

7. HANDLING AND STORAGE-PRECAUTIONS

7.1 Handling: Avoid creating dust. Repair all broken bags immediately.

7.2 Storage: Keep dry and far from odoriferous chemicals. (see doc CCC48-003(a)
“procedure for storage”

8. EXPOSURE AND PERSONAL PRECAUTION

8.1 Respiratory organs protection:

- A dust mask shall wear.
- When working in zones where the perlite layer is more than 1 m high, wearing a harness and attaching to lifeline to avoid falling into the perlite.

8.2 Eye protection: Safety glasses shall be wear.

8.3 Hand & skin protection: None.

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9. PHYSICAL-CHEMICAL PROPERTIES

Physical state at 20 °C : Solid white powder

Density : 35 – 65.6 kg/m³

pH (in 100 g/l water slurry) : 5.5 - 9.0

Solubility in water (20 °C) : 0.1 g/l

State Modification : over 800 °C

10. STABILITY AND REACTIVITY

Hazardous Reaction : None, except with fluoric-acid

Hazardous dissemination products : Reacts with fluoric-acid to form toxic silicon tetrafluoride.

11. TOXICOLOGY

See section 2

12. ECOLOGICAL DATA

Bio degradability and fish toxicity: None.

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13. WASTE MANAGEMENT

Dispose off in approved landfill. Keep moist or cover with earth.

14. TRANSPORT INFORMATION

See doc CCC48-015 Handling and storage procedure.

15. LEGAL INFORMATION

Hazard symbol : none
Risk sentences R : none
Risk sentences S : none
Recommended: S22 : do not inhale dust
S26 : by eye contact, flush with water

16. FURTHER INFORMATION

Application: - Cryogenic grade expanded perlite is used to insulate cold boxes and storage tanks.

THIS SHEET IS ACCORDING TO DIRECTIVE 2001/58/EC OF THE COMMISSION OF 27/07/2001.

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