

Product name: Mineral wool insulation ropes "ZCS"

Date of issue: February, 2013

#### 1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER:

1.1 Identification of the product : Mineral wool insulation ropes "ZCS"

1.2 Manufacturer : Prospec Specialties Inc.

Suite 400, 3601, Highway 7, Markham

ON L3R 0M3, Canada

1.3 Emergency # : (888) 749-8456

# 2. COMPOSITION:

#### 2.1 Mineral Wool:

Vitreous silicate fibers produced under process conditions (as stone wool in a concentration of 96-100% weight) with or without durometer synthetic resins and with or without the addition Of mineral oil.

INDEX-No. : 650-016-00-2 (mineral fibers)

EINECS-No. : Not Applicable CAS-No. : Not Applicable

CLASSIFICATION : /
RISK PHRASES : /

# 2.2 Glass fibre rowing:

2.2.1 Glass fibre:

SiO2 54,00% B2O3 7,00% R2O3 (Al2O3 + F2O3) 14,60% RO (CaO + MgO) 22,00% R2O 1,00% max.

2.2.2 Surface Treatment 0,70% max.

Ingredients cca. 97,00% water

Cca. 3,00% metacrylsilan based polyester and epoxy

dispersion

## 3. HAZARD IDENTIFICATION:

- 3.1 Health and environmental hazards:
- 3.2 The product is not dangerous for health and environment according to 67/548/ECC directive



## 4. FIRST AID MEASURES:

4.1 Inhalation : Try to cough up, rinse with water

4.2 Skin contact : Wash thoroughly with water or soapy water. In case of allergy

consult your physician

4.3 Eye contact : Treat in the same way as any foreign body in the eye. Don't rub

Your eyes and irrigate copiously with clean, fresh water. In case

of permanent pain, seek the medical assistance

4.4 Ingestion : Not applicable; in case of sickness, induce vomiting

4.5 Reference for the Dr. : Filament diameter, concentration of fibres during contact

4.6 Availability of the first-aid means to provide immediate treatment at the work place:

: drinking water, aid for disinfection, substance for rinsing of eyes,

Regenerate skin cream

## 5. FIRE-FIGHTING MEASURE:

5.1 Suitable extinguishing media

: Mineral fibers and glass thread are incombustible. At temp. above 500 deg. C the binder contained in the product starts to burn. Extinguish by using common extinguishing methods

5.2 Unsuitable extinguishing media

: Not Applicable

5.3 Special hazards jeopardizing persons, involved in firefighting activities:

: Not Applicable

5.4 Special protective equipment for firemen:

: Not Applicable

# 6. <u>ACCIDENTAL RELEASE MEASUERS:</u>

6.1 Personal protective measures : In case of high dust levels in the working environ-

ment use the protective equipment describe in sec.8

6.2 Measures to protect the environment: Not Applicable

6.3 Cleaning measures after accidental releases: Clean with an industrial vacuum cleaner.

#### 7. HANDLING AND STORAGE:

7.1 Handling: Factory-packed insulation material should only be unpacked on site where it is being used. Do not sweep up spilled dust or blow it away with compressed air. Clean with an industrial vacuum cleaner. Provide the necessary ventilation on the building site. Carefully remove old insulation material. Use tools that do not rise so much dust.



7.2 Storage: Insulation material should be stored in a roofed, dry warehouse.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION:

8.1 Maximum workplace concentrations

: 500.000 fibers/m<sup>3</sup> (MAK Values according to TRGS 900)

8.2 Respiratory protection

: Use P2 breathing-protection masks particularly in areas with high dust levels (e.g. when removing insulation material exposed to high

temperatures or in tight, poorly ventilated rooms)

8.3 Hand protection : Wear protective gloves

8.4 Eyes protection : In areas with high dust concentrations and when completing work

above head height, use tight-fitting protective goggles

8.5 Protective clothing : Wear loose-fitting, buttoned work clothing, not irritating to the skin

In case of sensitive skin use greasy protective face cream

General protection and hygienically measures are recommended

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Mineral wool:

9.1.1 Appearance : Yellow-grey material in solid physical state

9.1.2 Odor : Not Applicable 9.1.3 pH (at 100g/l H2O) : 7-8 (at 25°C)

9.1.4 Boiling temp./range : Not Applicable

9.1.5 Melting point/range : 800-1100°C (mineral fibers)

9.1.6 Inflammability : In view of the required European tests

EN ISO 1182 (incombustibility test in a conical furnace)

EN ISO 1716 (calorimetric test)

EN 13823 (SBI test-single burning item)

According to Euroclasses (classes of reaction to fire)

The ZCS product has been attributed to Euroclass A1

This means that ZCS has been classified as incombustible

9.1.7 Flash Point : Not Applicable9.1.8 Ignitability : Not Applicable

9.1.9 Self-ignitability : Not Applicable

9.1.10 Explosive properties : The material has no explosive properties9.1.11 Oxidation properties : The material has no oxidation properties



9.1.12 Relative density : Varies, depending on type of product diameter (240+/-20 kg/m³)

9.1.13 Solubility (in water) : Not Applicable

(in fat) : Not Applicable

9.2 Glass fibre rowing:

9.2.1 Form : Solid9.2.2 Color : White

9.2.3 Design : Endless glass fibre, elementary diameter  $13\mu m$ , cylindrical

shape bobbin with max. weight of 15 kgs

9.2.4 Melting point : cca. 1250 - 1600°C

9.2.5 Littleton point : cca. 825 - 855°C

9.2.6 Density : 2,59 g/m<sup>3</sup>

9.2.7 Inflammable : No9.2.8 Danger of explosion : No9.2.9 Oxidizing properties : No

### 10. STABILITY AND REACTIVITY:

10.1 Thermal decomposition : Formation of gases (unbound, free components of Durometer

Binder) in small ppm concentrations at first temperature increase above 200°C. Full decomposition of binder at temp.

above 500°C

10.2 Dangerous reactions : None10.3 Dangerous decomposition products : None

# 11. TOXICOLOGICAL INFORMATION:

11.1 Acute oral toxicity : Not Applicable
11.2 Acute dermal toxicity : Not Applicable
11.3 Skin sensitivity : Not irritant
11.4 Eyes sensitivity : Not irritant
11.5 Effects after a long standing exposure

: Not Applicable

11.6 Knowledge from practical application

: If properly used, no effects detrimental to health could be

noticed during the observations up to the present

## 12. ECOLOGICAL INFORMATION:

ZCS product have no known dangerous impact on the environment



# 13. DI SPOSAL CONSIDERATIONS:

13.1 Product : Waste material should be disposed of in accordance with

rules on the management of waste (Official gazette of the RS, Nos. 84/98, 45/00, 20/01, 13/03) and regulation on the

Landfill of waste (Ur.I.RS, st.32/06)

13.2 Recycling of waste materials : Waste mineral wool can be recycled by the manufacturer

13.3 Packaging of waste materials: Packaging of waste material should be disposed of in

accordance with rules on the management of waste (Official

gazette of the RS, No. 84/98, 45/00, 20/01, 13/03).

Packaging material can be recycled.

#### 14. TRANSPORT INFORMATION:

14.1 Special precautions are not needed. Transport in covered means of transport

14.2 Dispatch units – products are packed in PE bags and stacked onto pallets.

## 15. REGULATORY INFORMATION:

15.1 EEC classification: Not classified15.2 Danger symbols: Not required15.3 R-records: Not required15.4 S-records: Not required

According to EU Directives, designation of bonded (polymerized)