

1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Commercial Product Name **ZIRCOVAL® DR / DN / 65RE**
Name Secondary Raw Material

Relevant identified uses of the substance or mixture and uses advised against

Use of the Mixture Manufacturing of concrete and formed refractories

Details of the supplier of the safety data sheet

Supplier **VALOREF S.A.**
 ZI La Croisière
 F – 84 500 BOLLENE

Phone + 33 (0) 4 90 40 50 00
Email contact.valoref@saint-gobain.com
Website www.valoref.eu

Emergency phone number + 33 (0) 4 90 40 50 00

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to regulation CLP (EC) 1272/2008

None of the components are classified as hazardous

Label elements

No label elements according to regulation 1272/2008/EC

Other hazards

Human Product with a low rate of fines: risks of emission of dust while handling
 Possible irritation by abrasive action
 Product with trace of natural radioactive elements (U+Th<0.05%)
Environment No particular risks to the environment

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures

Nature Refractory grain of zircon isostatic
Origin Secondary raw material from the treatment of used refractory

Chemicals characteristics **ZIRCOVAL® DR / DN / 65RE**

ELEMENTS	%	EINECS	CAS	REACH Registration Number
ZIRCONIUM SILICATE	65 %	239-019-6	14940-68-2	Exempted
SILICON DIOXYDE	33 %	231-545-4	7631-86-9	Exempted

4 – FIRST AID MEASURES

Description of first aid measures

Skin contact	Wash with water and soap
Eyes contact	Immediately wash with water for 15 minutes and treat as well a particle
Ingestion	Seek medical advice immediately
Inhalation	Dust : go to dust free environment

Most important symptoms and effects, both acute and delayed

Not applicable

Indication of any immediate medical attention and special treatment needed

Not applicable

5 – FIREFIGHTING MEASURES

Extinguishing media

The product is non – flammable and is compatible with all firefighting measures

Special hazards arising from the substance or mixture

Not applicable

Advice for firefighters

Not applicable

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear gloves, an anti-dust mask, type FFP3, and security glasses. Clean by aspiration

Environmental precautions

Clean by aspiration to prevent dust production

Methods and materials for containment and cleaning up

Cleaning methods Pick up mechanically and clean by aspiration

Reference to other sections

Not applicable

7 – HANDLING AND STORAGE

Precautions for safe handling

Deconditioning	Use an anti-dust mask, type FFP3, according to NF EN 149
Product handling	Use the Individual Protection Equipments (Security glasses, anti-dust mask type FFP3 according to NF EN 149, security shoes) Handle in ventilated areas

Conditions for safe storage, including any incompatibilities

Storage	Dry storage needed
Special care of	Dense Product, control of right capacity of silos and all containers

Specific end use(s)

Not applicable

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

In normal conditions of use, the product doesn't yield exposure above >1 mSv/y (1600 h/y) – public limits in accordance with Euratom 96/29 directive

Limits of inhalation :

- **Compounds of zirconium silicate :** 0.5 mg/m³ per 8 hours ACGIH, MAK et OSHA (TWA)
10 mg/m³ per 15 min ACGIH et OSHA (STEL)
- **Amorphous silicon dioxide :** 4 mg/m³, MAK – 6 mg/m³, OSHA per 8 hours (TWA)
10 mg/m³ ACGIH per 8 hours (TWA)

Exposure controls

Individual protection measures in normal use Use the Individual Protection Equipments (Security glasses, anti-dust mask type FFP3 according to NF EN 149, security shoes)

Special protection measures Handle in ventilated areas

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Granule – fines	Odour	Nil
Bulk density	3.7 / 4.3 t/m ³	Solubility in water	Product non soluble
Colour	Grey to beige	Humidity	<1 %

Other information

Not applicable

10 – STABILITY AND REACTIVITY

Not applicable

11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

- orally No data available
- by inhalation No data available

Skin irritation None

Eye Irritation Abrasive by friction

Chronic toxicity

- by inhalation Injurious effect repetitive inhalation of dust

Genetic toxicity in vitro

Ingestion None

12 – ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects
Other information Avert the reject in the environment

13 – DISPOSAL CONSIDERATIONS
Waste treatment methods
Elimination Inert material which can be eliminated as same, but which may contain some lixiviable pollutant agent. Control of pollutant potential before elimination.

14 – TRANSPORT INFORMATION
UN number

Not applicable

Proper shipping name

Not applicable

Transport hazard clas(ses)

Not applicable

Packing group

Not applicable

Environmental hazards

Not applicable

Special precautions for user
Unloading care Bulk transportation :
 Move away the personnel of the zone of unloading
 Open the doors with a mechanical or hydraulic system

15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

CLP regulation EC 1272/2008

Symbols and indications of danger	No symbol
H phrases	No H phrase
P phrases	No P phrase

Chemical Safety Assessment

No data available

16 – OTHER INFORMATION

The information hereby contained is elements aware by VALOREF fat the time of the product's delivery. They couldn't substitute any safety and care instructions specified by the company while processing. Responsibility of VALOREF couldn't be engaged in case of injuries or accident because of wrong non utilization of this information.