

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

Product identifier

Commercial Product Name **VALMAG® CR**
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

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

Emergency telephone 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
Environment No particular risks to the environment

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixtures

Nature Refractory grain of magnesium oxide and chromium oxide
Origin Secondary raw material from the treatment of used refractory

Chemicals characteristics **VALMAG® CR**

ELEMENTS	%	EINECS	CAS	REACH Registration Number
MAGNESIUM OXIDE	45 - 70 %	215-171-9	1309-48-4	Exempted
CHROMIUM OXYDE	8 - 16 %	215-160-9	1308-38-9	01-2119433951-39
ALUMINIUM OXYDE	0 - 8 %	215-691-6	1344-28-4	01-2119529248-35

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 magnesium oxide :** 10 mg/m³ - OSHA per 8 hours (TWA)
- **Compounds of aluminium oxide :** 5 mg/m³ - OSHA / 10 mg/m³ ACGIH pour 8 heures (TWA)
6 mg/m³ alvéolaire, MAK pour 8 heures
10 mg/m³ France pour 8 heures (VME)
- **Compounds of chromium oxide :** 0.5 mg/m³ de Cr III, ACGIH - MAK et OSHA (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	2.7 / 3.1 t/m ³	Solubility in water	Product non soluble
Colour	Green to black	Humidity	<1 %

Other information

Not applicable

10 – STABILITY AND REACTIVITY

Not applicable

11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

- orally Al₂O₃ LD50 > 2000 mg/kg bw (rat). *OECD 420*

- by inhalation Average maximum concentration applicable :
Al₂O₃ LC50 > 2.3 mg/l. *OECD 403*

Skin irritation Al₂O₃ Not irritating to the skin of rabbits *OECD 404*

Eye Irritation Al₂O₃ The substance was determined to not be eye irritant *OECD 405*

Chronic toxicity

- by inhalation Al₂O₃ NOAEC = 70 mg/m³ *OECD 413*

Genetic toxicity in vitro

Aluminium oxide No effects (The authors briefly mention that no mortality nor toxic symptoms were observed at any dose level in the range-finding study nor in the 5 rats at the highest dose level in the main study that was reported in the article) *OECD TG 420*

Ingestion

Harmful

12 – ECOLOGICAL INFORMATION

Toxicity

Short-term toxicity

- to fish

Al₂O₃ NOEC (96h) > 0.071 mg/L *OECD 203 (Salmo trutta)*
LC50 (96h) > 218.64 mg/L total Al, no filtered *Pimephales promelas*

- to aquatic invertebrates

Al₂O₃ NOEC (48h) > 0.071 mg/L dissolved. (*Daphnia Magna*) *OECD 202*

Persistence and degradability

No data available

Bioaccumulative potential

Bioaccumulation

Al₂O₃ Not applicable, the substance is not classified

Mobility in soil

Al₂O₃ Not applicable, the substance is not classified

Results of PBT and vPvB assessment

Al₂O₃ Not applicable, the substance is not classified

Other adverse effects

Other information

Avert the reject in the environment

13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

Elimination

Material with a chromic oxide basis which may lose some chrome and hexavalent chrome traces by leaching. The elimination of the clearance products and same shall be done in controlled dumping Centre for dangerous industrial waste.

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 – INFORMATIONS REGLEMENTAIRES

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.