## 1. IDENTIFICATION

*1.1.* *Commercial name*: CORDIERITE

*1.2.* *Supplier:*
ALDERO industrial supplies srl
Via Quartaccio 1, 01033 Civita Castellana -VT-
tel +39 0761 513248 - fax +39 0761 599530
web www.aldero.com - email info@aldero.com

## 2. PRODUCT CHEMICAL COMPOSITION

*2.1.* *Substance:* Refractory material (Cordierite)

*2.1.* *Dangerous impurity:* None

## 3. HAZZARD INFORMATON

If dry cut, dust may contain quartz

## 4. FIRST AID MEASURES

*4.1.* *Skin contact:* Normally doesn't give consequence . If irritation persist, seek medical aid (Dry Dust)

*4.2.* *Eye contact:* Flush with clean water. If irritation persist, seek medical aid (Dry Cutting Dust)

*4.3.* *Inhalation:* Remove with fresh air. If irritation persist, seek medical aid (Dry Cutting Dust)

*4.4.* *Ingestion:* Rinse mouth out with fresh water. No other treatment necessary

## 5. FIRE FIGHTING MEASURES

*5.1.* *Particular fire or explosion danger:* Inactive product – No reaction with water and other extinguishing agent

*5.2.* *Extinguishing method:* Recommendation: None
Contra-indication: None

*5.3.* *Particular protection measure:* None

## 6. ACCIDENTAL RELEASE MEASURES

*6.1.* *Individual protection measures:* No one in particular

*6.2.* *Environment protection measure:* No one in particular

*6.3.* *Cleaning method:* No one in particular

*6.4.* *Product destruction method:* No one in particular

## 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| *7.1.* | *Special precaution:* | Normal precaution for all the solid, heavy and abrasive products |
| *7.2.* | *Storage:* | No particular storage recommendation |
| *7.3.* | *Packing material:* | All |

## 8. PERSONAL PROTECTION

| | | |
|---|---|---|
| *8.1.* | *Respiratory protection:* | If the dust concentration exceed limits (dry cutting) use of filtering half mask may be recommended |
| *8.2.* | *Hand protection:* | Barrier protection may be recommended |
| *8.3.* | *Skin protection:* | Barrier protection may be recommended |
| *8.4.* | *Eye protection:* | Eye protection may be recommended during cutting operation |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| *9.1.* | *Appearance:* | Solid. Shaped product with variable dimensions |
| *9.2.* | *Odor:* | None |
| *9.3.* | *Color:* | Beige |
| *9.4.* | *pH:* | 7 |
| *9.5.* | *Melting point:* | > 1600 °C |
| *9.6.* | *Flammability:* | Non flammable |
| *9.7.* | *Explosive properties:* | Non explosive |
| *9.8.* | *Density:* | 2.04 g/cm$^3$ |
| *9.9.* | *Solubility:* | Solvent Insoluble |
| *9.10.* | *Water solubility:* | Insoluble |

## 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| *10.1.* | *Dangerous alteration products:* | None |
| *10.2.* | *Reaction:* | None |

## 11. TOXICOLOGY

Cordierite (Cordierite refractory material) is non toxic

## 12. ECOLOGICAL INFORMATION

*12.1.* *Degradability:* Non biodegradable. Persistent.

*12.2.* *Accumulation:* No bio-accumulation or bio-magnification identified.

*12.3.* *Eco toxicity:* Non toxic.

## 13. WASTE DISPOSAL INFORMATION

*13.1.* *Waste disposal:* Non dangerous product. Nevertheless see the local recommendation for waste disposal.

*13.2.* *Dirty packages destruction process:* None

## 14. TRANSPORT INFORMATION

*14.1.* *By land & by river:* Non dangerous substance

*14.2.* *By sea:* Non dangerous substance

*14.3.* *Air:* Non dangerous substance

## 15. REGULATORY INFORMATION

Cordierite CAS number 123330-40-4 (Chemical Abstract Service)

Mullite CAS number 1302-93-8 (Chemical Abstract Service)

Quartz CAS number 14808-60-7 (Chemical Abstract Service)

## 16. ADDITIONAL INFORMATION

Water absorbent product.
Product with alimentary certification.