



Kelsen

HEALTH AND SAFETY INFORMATION SHEET

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REV. N°: 00

GRADE:

KELNOR 320 HTR

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

- **TRADE NAME:** KELNOR 320 HTR
- **SYNONYMOUS:** Resin bonded tempered enriched dolomite-carbon brick.
- **SUPPLIER:** Refractarios Kelsen S. A.
- **ADDRESS:** Pol. Elbarrena s/n, Aduna-Guipúzcoa-Spain.
- **TELEPHONE NUMBER:** 34-943-69 60 99
- **FAX NUMBER:** 34-943-69 17 77
- **EMERGENCY TELEPHONE NUMBER:** 34-943-69 60 99
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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS N°	DESIGNATION	RANGES (%)	SYMBOL	RISK PHRASES
9003-35-4	Phenolic resin	$>2,5 \leq 10$	Xn	R20/21/22
1309-48-4	Magnesia	$>1 \leq 50$		
37247-91-9	Dolomite	$>50 \leq 100$	Xn	R41
7782-42-5	Flake Graphite	$>1 \leq 10$		

3. HAZARDS IDENTIFICATION

In the form supplied this product is not hazardous.

During preheat on newly constructed linings decomposition products might arise with the following risk identification:

- **R20** Harmful by inhalation.
- **R37** May be irritating to respiratory system.

4. FIRST AID MEASURES

In all cases seek medical attention

- **INHALATION:** If fumes or volatiles evolved during preheat are inhaled, remove to fresh air.
- **SKIN CONTACT:** Wash off any dust with warm soapy water.
- **EYE CONTACT:** If dust/chipping generated during handling, cutting or breaking operations enter eyes, flush with cool clean water.

5. FIRE FIGHTING MEASURES

Refractory products are heat resistant and not themselves combustible although decomposition products formed during heating to high temperatures are combustible.

Extinguisher type: General Purpose - for packaging material only.

Special Procedures: Non required.

6. ACCIDENTAL RELEASE MEASURES

There are no known risk associated with C-Bond products even if they are exposed to soil or surface water contact.
No special measures are required.

7. HANDLING AND STORAGE

A small amount of dust may be generated during handling. This may be classed as a nuisance particulate consisting of dolomite and magnesia.
Store in dry area away from fierce heat that may cause damage to packaging materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- VENTILATION: Maintain good ventilation/extraction during preheat on newly constructed linings, during cutting/grinding and wrecking operations.
- RESPIRATORY: Use approved equipment if conditions so require and an adequate dust mask during wrecking operations.
- HAND PROTECTION: Wear non-porous anti-slip gloves.
- EDGE PROTECTION: Use protective glasses when cutting or drilling is necessary.
- SKIN PROTECTION: Use working clothes.
- FEET PROTECTION: Use safety shoes.
- HYGIENE MEASURES: Maintain good ventilation/extraction during preheat of newly installed linings, during cutting, grinding and wrecking operations.
- SPECIFIC CENTRAL PARAMETERS FOR PERSONAL PROTECTION: Customers are advised to check national regulations for limit values and their period of reference.

9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE: Solid.
- SHAPE: Brick, standard shapes.
- COLOUR: Brown.
- ODOUR: Phenolic resin.
- MELTING POINT: > 1.700 °C
- BULK DENSITY AT 25 °C: > 2,86 g/cm³.
- SOLUBILITY IN WATER: Slightly soluble.

10. STABILITY AND REACTIVITY

- CONDITIONS TO AVOID: Temperatures above 300 °C.
- MATERIALS TO AVOID: Moisture and water.
- HAZARDOUS DECOMPOSITION: None other than fume/volatile emission evolved during preheat as described on item 3.

11.-TOXICOLOGICAL INFORMATION

There are no known health effects that can arise from the product on delivery, but short term exposure to volatiles driven off during preheat operations may cause temporary sensitisation of the eyes, nose and throat. Over-exposure to fumes due to poor ventilation may lead to nausea or dizziness.

12. ECOLOGICAL INFORMATION

C-bond products are inert in the form supplied. Dolomite will eventually degrade after a prolonged period of contact with moisture/water to form a hydrate which is slightly alkaline.
There is not bioaccumulation potential or aquatic toxicity associated with the products.

13. DISPOSAL CONSIDERATIONS

Before undertaking the wrecking of used carbon refractory linings, customer are advised to evaluate any changes to the product that may be induced by the introduction of substances and operating conditions not under the control of the vendor.

The unused and used product can be recycled or dumped in special refuse sites according to national laws.

The slow hydration of the dolomite and magnesia in the product makes it unsuitable for potential construction purposes.

14. TRANSPORT INFORMATION

No special labelling or transport measures have been identified for C-Bond products.

15. REGULATORY INFORMATION

The product in the as received form is not hazardous and does not need special labelling.

During initial heating up with incomplete combustion volatiles may occur as described on chapter 3.

16. OTHER INFORMATIONS

The information included in this safety data sheet is based on our knowledge on the product. However, they cannot be considered a warranty and exclude us of any liability.

If you need further information about the product please address to Refractarios Kelsen S.A.