## **COLLE REFRACTAIRE 501**

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## **SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: COLLE REFRACTAIRE 501

UFI: 2URU-537V-X60F-ARXQ

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Refractory glue

## 1.3. Details of the supplier of the safety data sheet

Registered company name: GEB.

 $\label{eq:Address} Address: CS~62062.95972. ROISSY~CDG~CEDEX~.~France.$  Telephone: +33 1 48 17 99 99. Fax: +33 1 48 17 98 00.

geb@geb.fr www.geb.fr

#### 1.4. Emergency telephone number: +33 1 45 42 59 59.

Association/Organisation: INRS.

### Other emergency numbers

N/A

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

## 2.2. Label elements

Hazard pictograms:



GHS07

Signal Word:

WARNING

Hazard statements:

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Precautionary statements - Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

 $Precautionary\ statements\ -\ Disposal\ :$ 

P501 Discard content/container according to applicable regulations.

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# 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table

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The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.2. Mixtures

## **Composition:**

Identification Classification (EC) 1272/2008 Note %	
	<= x % < 50
EC: 238-878-4	
QUARTZ	
CAS: 1332-58-7 [i] 2.5	<= x % < 10
EC: 310-194-1	
KAOLIN	
	<= x % < 1
CAS: 7446-19-7 Dgr	
EC: 231-793-3 Acute Tox. 4, H302	
REACH: 01-2119474684-27 Eye Dam. 1, H318	
Aquatic Acute 1, H400	
ZINC SULPHATE (HYDROUS) (MONO-, M Acute = 1	
HEXA-AND HEPTA HYDRATE) Aquatic Chronic 1, H410	
M Chronic = 1	
	<= x % < 1
CAS: 1310-73-2 Dgr	
EC: 215-185-5 Skin Corr. 1A, H314	
REACH: 01-2119457892-27	
GODILIM HANDRONIDE	
SODIUM HYDROXIDE	<= x % < 1
	<= X % < 1
EC: 238-878-4   Dgr   STOT RE 1, H372	
OUARTZ ALVEOLAIRE	
	= x % < 0.1
CAS: 100-42-5 Dgr [i]	- A /0 \ U.1
EC: 202-851-5   Flam. Liq. 3, H226   [ii]	
Repr. 2, H361d	
STYRENE Acute Tox. 4, H332	
STOT RE 1, H372	
Skin Irrit. 2, H315	
Eye Irrit. 2, H319	

# **Specific concentration limits:**

Specific concentration mints.		
Identification	Specific concentration limits	ATE
INDEX: 011-002-00-6	Skin Corr. 1A: H314 C>= 5%	
CAS: 1310-73-2	Skin Corr. 1B: H314 2% <= C < 5%	
EC: 215-185-5	Skin Irrit. 2: H315 0.5% <= C < 2%	
REACH: 01-2119457892-27	Eye Dam. 1: H318 C>= 2%	
	Eye Irrit. 2: H319 0.5% <= C < 2%	
SODIUM HYDROXIDE		

## **Information on ingredients:**

(Full text of H-phrases: see section 16)

- [i] Substance for which maximum workplace exposure limits are available.
- [ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

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#### **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

## 4.1. description of first aid measures

## In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

#### In the event of swallowing:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

## 4.2. Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

#### **SECTION 5: FIREFIGHTING MEASURES**

Non-flammable.

## 5.1. Extinguishing media

## Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO2)

## Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

## 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

## 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

## For non first aid worker

Avoid any contact with the skin and eyes.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

## 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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# 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

#### 6.4. Reference to other sections

No data available.

## **SECTION 7: HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

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#### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

### Fire prevention:

Prevent access by unauthorised personnel.

## Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

## Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

## 7.2. Conditions for safe storage, including any incompatibilities

No data available.

## **Packaging**

Always keep in packaging made of an identical material to the original.

## 7.3. Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

## Occupational exposure limits:

- UK :

CII.					
CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
14808-60-7	0.3 mg/m3	-	-	-	R
1332-58-7	2 mg/m3				
1310-73-2		2 mg/m3			
14808-60-7	0.3 mg/m3	-	-	-	R
100-42-5	100 ppm	250 ppm			
	430 mg/m3	1080  mg/m3			

## 8.2. Exposure controls

## Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard ISO 16321.

### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

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Type of gloves recommended:

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties:

Thk: 0.075 mm - **Body protection** 

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

Physical state

Physical state: Viscous liquid.

Colour

Unspecified

Odour

Odour threshold: Not stated.

Melting point

Melting point/melting range: Not specified.

Freezing point

Freezing point / Freezing range : Not stated. **Boiling point or initial boiling point and boiling range** 

Boiling point/boiling range : Not relevant.

Flammability

Flammability (solid, gas): Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) Not stated.

: Explosive properties, upper explosivity limit (%) Not stated.

Flash point

Flash point interval: Not relevant.

**Auto-ignition temperature** 

Self-ignition temperature: Not specified.

**Decomposition temperature** 

Decomposition point/decomposition range: Not specified.

pН

pH (aqueous solution):

pH:

12.10.

Strongly basic.

Kinematic viscosity

Viscosity: Not stated.

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**Solubility** 

Water solubility: Dilutable. Fat solubility: Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water: Not stated.

Vapour pressure

Vapour pressure (50°C): Not relevant.

Density and/or relative density

Density:

Relative vapour density

Vapour density: Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

Avoid:

- frost

## 10.5. Incompatible materials

Keep away from:

- strong acids
- strong oxidising agents

## 10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 11.1.1. Substances

## a) Acute toxicity:

No data available.

## b) Skin corrosion/skin irritation:

No data available.

## c) Serious damage to eyes/eye irritation :

No data available.

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## d) Respiratory or skin sensitisation :

No data available.

#### e) Germ cell mutagenicity:

No data available.

## f) Carcinogenicity:

No data available.

## g) Reproductive toxicant:

No data available.

#### h) Specific target organ systemic toxicity - single exposure :

No data available.

## i) Specific target organ systemic toxicity - repeated exposure :

No data available.

#### j) Aspiration hazard:

No data available.

#### 11.1.2. Mixture

#### 11.1.2.1 Information on hazard classes

## a) Acute toxicity:

Oral route : No data available.

No data available.

Dermal route:

No data available.

Inhalation route (Dusts/mist):

## b) Skin corrosion/skin irritation:

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

## c) Serious damage to eyes/eye irritation :

No data available.

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Tests have proven that the mixture is not corrosive, does not produce serious ocular lesions or cause irritation despite the low/high pH.

## d) Respiratory or skin sensitisation:

No data available.

# e) Germ cell mutagenicity :

No data available.

## f) Carcinogenicity:

No data available.

## g) Reproductive toxicant :

No data available.

## h) Specific target organ systemic toxicity - single exposure :

No data available.

## i) Specific target organ systemic toxicity - repeated exposure :

No data available.

## j) Aspiration hazard :

No data available.

### 11.1.2.2 Other information

# $Monograph(s)\ from\ the\ IARC\ (International\ Agency\ for\ Research\ on\ Cancer):$

CAS 100-42-5: IARC Group 2A: The agent is probably carcinogenic to humans.

CAS 14808-60-7: IARC Group 1: The agent is carcinogenic to humans.

CAS 14808-60-7: IARC Group 1: The agent is carcinogenic to humans.

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#### 11.2. Information on other hazards

## **Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

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## **SECTION 12: ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

#### 12.1. Toxicity

#### **12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

#### 12.2. Persistence and degradability

No data available.

## 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

## 12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

#### 12.7. Other adverse effects

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

## 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## **SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

#### 14.1. UN number or ID number

## 14.2. UN proper shipping name

# 14.3. Transport hazard class(es)

## 14.4. Packing group

## 14.5. Environmental hazards

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#### 14.6. Special precautions for user

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#### 14.7. Maritime transport in bulk according to IMO instruments

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## **SECTION 15: REGULATORY INFORMATION**

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

### Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

#### **Container information:**

No data available.

## Particular provisions:

No data available.

## Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

## Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: https://echa.europa.eu/fr/authorisation-list.

#### Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol):

The mixture does not contain any substance posing a risk to the ozone layer.

## Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

## PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

## **Explosives precursors:**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

### 15.2. Chemical safety assessment

No data available.

## **SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

## Wording of the phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorization and Restriction of Chemical Substances.

CMR: Carcinogenic, mutagenic or reprotoxic.

UFI : Unique formulation identifier. STEL : Short-term exposure limit TWA : Time Weighted Averages

TLV: Threshold Limit Value (exposure)

AEV: Average Exposure Value.

ADR: European agreement concerning the international carriage of dangerous goods by Road.

GHS07: Exclamation mark

IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
ICAO: International Civil Aviation Organisation
PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.

RID: Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern. vPvB : Very persistent, very bioaccumulable.

WGK: Wassergefahrdungsklasse (Water Hazard Class).