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SECTION 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Name	WT 102
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1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use	Waterstop with sodium bentonite and butyl rubber base to be used as hydro-expansive joint in concrete construction joints
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1.3. Supplier information of the safety data sheet

Company Name	VOLTECO Spa
Address	Via delle Industrie, 47
District and Country	31050 Ponzano Veneto (TV) – IT
Telephone	+39 0422 9663
Fax	+39 0422 966401
e-mail address of the person in charge of the safety data sheet	volteco@volteco.it

1.4. Emergency telephone number

For urgent enquiries, please contact	+39 0422 9663
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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

This mixture does not observe the classification criteria according to EC Regulation No. 1272/2008 (CLP) as amended.

2.2 Label elements

Hazard labelling pursuant to EC Regulation No. 1272/2008 (CLP) as amended.

Hazard pictograms	None
Warnings	None
Hazard statements	The mixture does not fulfil the classification criteria.

Precautionary tips

P102	Keep out of the reach of children.
P103	Read label before use
P101	When seeking medical advice, provide the container or label of the product.
Storage	Keep away from incompatible materials.
Disposal	Dispose of residues and waste in compliance with the regulations set out by the local authorities
Additional information on the labels	Not applicable.

2.3 Other hazards

No other information is available.

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture

Components

Name	CAS	EINECS	REACH registration	%	Substance number
Quartz	14808-60-7	238-878-4	-	< = 5	-

List of any abbreviations and symbols used above

CLP	EC Regulation No. 1272/2008 (CLP)
Directive on dangerous substances (SDS)	Directive No. 67/548/EC
M	Multiplier factor
vPvB	Very persistent and very bioaccumulative substance
PBT	Persistent, bioaccumulative and toxic substance
#	Community exposure limits in the workplace have been assigned to this substance.

Comments on composition

Bentonite contains the crystalline silica found in nature (not listed in Annex I of Directive 67/548/EC) at amounts of less than 6 %. The occupational exposure limits relative to the components are listed in Section 8. The full wording for all of the P and H phrases are provided in Section 16.



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The occupational exposure limits relative to the components are listed in Section 8.
This product contains an amount of less than 6% crystalline silica.
The respirable crystalline silica fraction as determined by the SWeRF method is less than 0.1% in weight.
The details on the SWeRF method are available at www.crystallinesilica.eu.

SECTION 4. First aid measures

4.1 Description of the first aid measures

Contact with skin	No special measures are required. Seek medical attention if the irritation worsens or persists.
Contact with eyes	Immediately rinse eyes with plenty of water. Seek medical attention if the irritation worsens or persists.
Swallowing	No special measures are required. If a large amount is swallowed, seek medical attention.
Inhalation	Take the affected individual out to the fresh air. If the affected individual is not breathing, perform CPR or administer oxygen if there is duly trained staff. If necessary, seek medical attention.

4.2 Main symptoms and effects, both acute and delayed

No other information is available.

4.3 Indication of any immediate medical attention and special treatment needed

Take all general support measures and treat based on symptoms.

SECTION 5. Fire-fighting measures

General fire hazard

No particular fire or explosion risks are indicated.

5.1 Extinguishing agents

Suitable extinguishing agents	Dry chemical product, CO ₂ , overhead water spray or standard foam. Carbon dioxide (CO ₂). Use the suitable extinguishing method based on the presence of other chemical substances.
Unsuitable extinguishing agents	None.

5.2 Special hazards arising from the substance or mixture

No other information is available.

5.3 Recommendations for those in charge of putting out fires

Special protective actions	In case of fire, wear a self-contained breathing apparatus. The material may be slippery when wet.
Special procedures	In case of fire, cool the containers with water spray.
Specific methods	In case of fire and/or explosion do not inhale the smoke. Cool the containers exposed to the flames with water, even after the flames have been put out.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For whoever is not working on it directly	The material may be slippery when wet.
For whoever works on it directly	Not known.

6.2 Environmental precautions

Avoid additional spillage or leaks, if this can be done without danger.

6.3 Methods and materials for containment and cleaning up

This product is mixable with water.
Stop the flow of material, if this is possible without risk.
Shovel the material into a waste container.
Cover with a tarpaulin to prevent spreading.
Once the product is recovered, rinse the area with water.

6.4 Reference to other sections

For information on personal protection, refer to Section 8 of the material safety data sheet.
For information on disposal, refer to Section 13 of the material safety data sheet.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

In case of insufficient ventilation, use a suitable breathing apparatus.
Aerate suitably during use of this product.



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Avoid prolonged exposure.
Keep away from heat and flames.

7.2 Conditions for safe storage, including any incompatibility

Store in a cool and well-ventilated area.
There are no incompatible products that need to be specifically mentioned.

7.3 Specific end uses

No other information is available.

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Occupational exposure limit

Valid for: ITALY

Description	CAS	mg/m ₃	Type	Shape
Quartz	14808-60-7	0,025	Weighted average (8 hours)	Respirable fraction
Biological limit values		No biological exposure limit value noted for the ingredient/ingredients.		
Recommended monitoring procedures		Respirable dust fraction. Follow the standard monitoring procedures.		
Derived no effect level (DNEL)		Not known.		
Predicted no-effect concentrations (PNEC)		Not known.		
Guidelines on exposure		Some components of this product are hazardous in breathable form. Nevertheless, thanks to the physical nature of this product, dust will not be generated.		

8.2 Exposure controls

Suitable technical controls	If the plant engineering measures are not sufficient to maintain the concentrations of dust particulate below the occupational exposure limit, wear suitable respiratory tract protection. In case of grinding, cutting or using a product that can create dust, use a suitable local aeration system to maintain exposure below the recommended exposure limits.
Personal protective measures	
Hand protection	Protect your hands with Category II work gloves (ref. Directive 89/686/EC and Standard EN 374), such as those made of PVC, neoprene, nitrile or equivalent material. The following must be considered for the final selection of the glove material: degradation, break-through time and permeation. In the case of preparations, the resistance of the work gloves must be verified before use as it can be unpredictable. The gloves have a wear time limit that depends on the duration of exposure. Wash your hands before work and at the end of the work shift. After handling the product, use moisturising skin cream.
Eye protection	Wear safety goggles protective goggles against chemical substances in case of fumes released by thermal treatments. Eye washing fountains are recommended.
Skin protection	Normally not necessary.
Other	No special protective set-up is required. When the material is heated, wear gloves for protection against burns. The personal protective equipment must be chosen in compliance with the CEN standards and together with the supplier of the personal protective equipment.
Respiratory protection	When the concentrations exceed the exposure limits, it is compulsory to use due respiratory tract protection systems. When dust and fumes are generated by the thermal treatment, and if aeration is not sufficient to remove them, it is necessary to provide suitable and NIOSH/MSHA-approved respiratory protection.
Thermal hazards	Not known.
Hygiene measures	Observe the exposure limit of 10 mg/m ³ recommended by the ACGIH for particles that are not otherwise classified (PNOC Particulates Not Otherwise Classified - USA).
Environmental exposure controls	No special measures are required.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Description	Values
Appearance	Rectangular cross-section profile
Physical state	Solid
Colour	Red



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Description	Values
Odour	None
Olfactory threshold	No data available/Not applicable
pH	No data available/Not applicable
Boiling point	No data available/Not applicable
Melting point	No data available/Not applicable
Flash point	Not flammable
Flammability	No data available/Not applicable
Decomposition temperature	No data available/Not applicable
Auto-ignition temperature	No data available/Not applicable
Solidification temperature	No data available/Not applicable
Evaporation rate	No data available/Not applicable
Vapour pressure	No data available/Not applicable
Vapour density	No data available/Not applicable
Relative density	No data available/Not applicable
Solubility	Negligible
Partition coefficient n-octanol/water	No data available/Not applicable
Viscosity	No data available/Not applicable
Viscosity (kinematic)	No data available/Not applicable
Oxidising properties	No data available/Not applicable
Part with solids	No data available/Not applicable

9.2 Other information

Volatile percentage: 0 % assessed.

SECTION 10. Stability and reactivity

10.1 Reactivity

Information not available.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

This will not happen.

10.4 Conditions to be avoided

Information not available.

10.5 Incompatible materials

Information not available.

10.6 Hazardous decomposition products

At thermal decomposition temperature, carbon monoxide and dioxide.

SECTION 11. Toxicological information

General information	Not known.
Contact with skin	Not known.
Contact with eyes	Not known.
Swallowing	Not known.
Other symptoms	Not known.

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Name of product/ingredient	CAS	Type	Species	Dose
Quartz	14808-60-7	LD50 Acute oral	Rat	500 mg/kg

* The assessments of the product can be based on additional data of un-indicated components.

Skin corrosion/irritation	Not known.
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Serious eye damage/Eye irritation	Slightly irritating to eyes.
Respiratory tract sensitisation	Not known.
Skin sensitisation	According to the classification criteria of the European Union, the product is not considered skin irritant.
Germ cell mutagenicity	Not known.
Carcinogenicity	In 1997 the International Agency for Cancer Research (IARC) came to the conclusion that crystalline silica inhaled from occupational sources can cause tumours to human lungs. Nevertheless, over the course of the complete assessment, IARC has noted that the "carcinogenicity" was not detected in all of the studied industrial circumstances. Carcinogenicity may depend on inherent characteristics of crystalline silica or on external factors that affect its biological activity or on the distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France). In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect on people due to the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of cancer of the lungs is greater in people affected with silicosis (and, it seems, not in employees not affected with silicosis exposed to silicon dust in quarries and in the industrial ceramics sector). Therefore, the prevention of the onset of silicosis will also reduce the risk of tumours..." (SCOEL SUM Doc 94-final, June 2003) Based on the current state of the art, the protection of workers against silicosis can be guaranteed uniformly through the observance of the existing work exposure limits, set forth by law. Occupational exposure to harmful dust and respirable crystalline silica must be monitored and controlled.
IARC Monographs General assessment of carcinogenicity	Quartz (CAS 14808-60-7) 1 Carcinogen to humans.
Toxic for reproduction	Not known.
Specific toxicity for target organs (STOT) - Single exposure	Not known.
Specific toxicity for target organs (STOT) - Repeated exposure	Not known.
Risk if inhaled	Due to the partial or total lack of data, classification is not possible.
Information on mixtures in relation to information on substances	Not known.
Other information	Not known.

SECTION 12. Ecological information

12.1 Ecotoxicity

This product is not expected to produce a significant amount of eco-toxicity if exposed to aquatic organisms and aquatic systems.

12.2 Persistence and degradability

Information not available.

12.3 Bioaccumulative potential

Information not available.

12.4 Mobility in the soil

Information not available.

12.5 Results of the PBT and vPvB evaluation

Not known.

12.6 Other adverse effects

No harmful effect for the environment (for example, reduction of the ozone layer, potential photochemical ozone creation, endocrine destruction, potential global warming) is expected for this component.

SECTION 13. Disposal considerations

13.1 Waste processing methods

Product

Residual waste	Not known.
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13.2 Contaminated packaging

Empty containers should be transported to an authorised recycling or disposal site.

Waste code	Not known.
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Disposal methods	Collect, contain or dispose of in sealed containers or authorised landfills. Dispose of according to
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applicable standards.

Particular precautions Dispose of according to applicable standards.

SECTION 14. Transport information

ADN	Not regulated as hazardous goods.
RID	Not regulated as hazardous goods.
ADN	Not regulated as hazardous goods.
IATA	Not regulated as hazardous goods.
IMDG	Not regulated as hazardous goods.

14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code

Non-relevant information.

SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

EU Regulation

Regulation EC No. 1005/2009 on substances that reduce the ozone layer - Annex I and as amended Not in the list.

Regulation EC No. 1005/2009 on substances that reduce the ozone layer - Annex II and as amended Not in the list.

Regulation EC No. 850/2004 on persistent organic pollutants - Annex I and subsequent amendments Not in the list.

Regulation EC No. 689/2008 on exporting and importing hazardous chemical substances - Annex I - Part 1 and subsequent amendments Not in the list.

Regulation EC No. 689/2008 on exporting and importing hazardous chemical substances - Annex I - Part 2 and subsequent amendments Not in the list.

Regulation EC No. 689/2008 on exporting and importing hazardous chemical substances - Annex I - Part 3 and subsequent amendments Not in the list.

Regulation EC No. 689/2008 on exporting and importing hazardous chemical substances - Annex V and subsequent amendments Not in the list.

Regulation EC No. 1907/2006 - REACH Art. 59 (10) - Substances on the current candidate list compiled by the European Chemicals agency (ECHA) Not in the list.

Authorisations

Regulation EC No. 1907/2006 - REACH Annex XIV - Substances subject to authorisation, modified Not in the list.

Regulation EC No. 1907/2006 - REACH Annex XVII - Substances subject to restrictions on their marketing and use and subsequent amendments Not applicable.

Limitations of use

Regulation EC No. 1907/2006 - REACH Annex XVII - Substances subject to restrictions on their marketing and use and subsequent amendments Not in the list.

Directive 2004/37/EC on the protection of workers against the risks deriving from exposure to carcinogenic and mutagenic agents during work and as amended Not in the list.



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Directive 92/85/EC on the health and safety of women in the workplace when pregnant or after they have recently given birth and women who are breastfeeding and as amended:

Not in the list.

Other EU Regulations

Directive 2012/18/EU on major accidents involving dangerous substances

Not in the list.

Directive 98/24/EC on the protection of the health and safety of workers against the risks deriving from exposure to chemical agents during work and as amended

Not in the list.

Directive 94/33/EC relative to the protection of young people at work and as amended

Not in the list.

Other Regulations

The product is labelled and classified according to EC Directives and national standards.

This material safety data sheet complies with the requirements of EC Standard No. 1907/2006 (REACH).

The product is not subject to labelling according to the EC directives or equivalent national regulations.

National regulations

For work involving chemicals, observe the national regulations.

15.2 Chemical safety assessment

No chemical safety assessment has been conducted.

SECTION 16. Other information

List of abbreviations

Not known.

References

Not known.

Information on the assessment method used to classify mixtures

Classification for health and environment-related hazards is obtained through a combination of calculation methods and experimental data of the tests, if available.

The full wording of any statements or R phrases and hazard statements based on Sections 2 - 15

None.

Revision information

None.

Training information

Inform employees (and clients or users in case of re-sale) of the potential presence of respirable dust and crystalline silica, as well as their potential risks. Provide correct instruction on the suitable use and management of this material as established by the applicable regulations. Follow the training instructions when handling this material.

EHS Department
2870 Forbs Avenue
Hoffman Estates, IL 60192
+1-847-851-1500

Additional information

The statements are based on our current knowledge and refer to the product in the state it is supplied in. The purpose of these is to describe our products in terms of safety and do not intend to guarantee any characteristics.

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service NUMBER
- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EINECS: European Inventory of existing Commercial Chemical substances
- GefStoffVO: Ordinance on hazardous substances in Germany
- GHS: Global harmonised system to classify and label Chemical products
- IATA: International Air transport Association
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"
- IMDG: International maritime code for transport of Dangerous Goods
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population



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- LTE: Long-term exposure
- PNEC: Predicted no-effect concentration
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STE: Short-time exposure
- STEL: Short-time exposure limit
- STOT: specific organ Toxicity
- TLV: occupational exposure threshold limit value
- TWA: 8-hour time-weighted average exposure limit
- OEL: EU occupational exposure limit value
- VLE: occupational exposure limit value
- WGK: water hazard class in Germany
- N.A.: Not applicable.
- N.D.: Not available

This safety data sheet was developed in compliance with Annex II - Guide to the compilation of Safety Data Sheets of Regulation (EC) No. 1907/2006 - Regulation (EC) No. 453/2010.

The information contained herein is based on our knowledge at the above date.

These refer solely to the indicated product and do not constitute a guarantee of particular quality.

The user is required to ensure the suitability and completeness of this information in relation to the specific intended use.

This sheet supersedes and replaces any previous edition.