



VOLTECO Spa

GARVO

Revision no. 2.0

Revision date 20/01/2016

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

1.1 Product identifier

Name **GARVO**

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

Description/Use **Sealing tape for joints**

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**

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Based on EC Regulation 1272/2008 the product is not classified as hazardous.

2.2 Label elements

CLP labelling:

Hazard phrases Not applicable.

Precautionary phrases Not applicable.

2.3 Other hazards

Danger of slipperiness if left on rubber sheet.

If handled for cutting or grinding, particles or dust may be generated.

When dust comes into contact with the eyes, it can generate a mechanical irritation.

Inhaling the dust can cause irritation of the respiratory system.

Explosion hazard due to dust.

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture

Not applicable.

3.2 Mixture

Mixture Sealing tape made of non-woven polypropylene material and a TPE (thermoplastic elastomer)

3.2 Mixture

Hazardous components None

SECTION 4. First aid measures

4.1 Description of the first aid measures

Contact with skin Remove residues with soap and water. In case of skin reactions, seek medical attention. After contact with the cast product quickly cool the affected area of skin with cold water. Do not remove the solidified product from the skin by tearing it off.

Contact with eyes Wash with plenty of running water for 10/15 minutes with the eyelids open. In case of persistent problems or symptoms, consult an ophthalmologist.

Swallowing This is not a probable channel of exposure. If dust develops, rinse mouth. Seek medical treatment in case of problems.

Inhalation If decomposition products are inhaled, take the affected individual outdoors and keep him/her there. In case of difficulty breathing request medical assistance.

4.2 Main symptoms and effects, both acute and delayed

No negative effect is known to date if the material is handled with care.

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When dust comes into contact with the eyes, it can generate a mechanical irritation.
Inhaling the dust can cause irritation of the respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

Treat the symptoms.

SECTION 5. Fire-fighting measures

5.1 Extinguishing agents

Adequate fire-fighting agents: spray jets of water, fire-prevention powder, CO₂, foam.

Suitable extinguishing agents Jets of water spray, fire-prevention powder, CO₂, alcohol-resistant foam.

Unsuitable extinguishing agents High pressure water spray.

5.2 Special hazards arising from the substance or mixture

The material is combustible but not easily ignitable.

In case of fire, the following may be created: smoke, carbon black, carbon monoxide and dioxide.

5.3 Recommendations for those in charge of putting out fires

Requested special protective equipment Wear pressurised breathing apparatuses and protective fire-resistant clothing.

Additional information Use fine water spray to cool damaged containers. Avoid extinguishing water from penetrating into the soil.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

None.

6.2 Environmental precautions

Prevent the product from entering the drains, surface water, ground water and confined areas.

6.3 Methods and materials for containment and cleaning up

Collect mechanically or store in suitable containers for disposal.

Additional information: Danger of slipping if on rubber sheet. Particular danger of slipping on cast product.

6.4 Reference to other sections

Refer to Sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

To avoid thermal decomposition, do not overheat.

When processed, provide suitable ventilation and if necessary install a system to extract fumes from the processing site.

Avoid the formation of dust.

Explosion hazard due to dust.

Avoid contact with skin and eyes.

Wear protective equipment.

Keep unprotected people away.

Do not eat, drink or smoke when handling the product.

7.2 Conditions for safe storage, including any incompatibility

Requirements for storage environments and containers Store at room temperature. Protect against exposure to heat, sun light and cold. Store in dry place.

Storage tips Do not store with combustible or self-igniting material or with highly flammable solids.

Storage class 11 - Solid fuels.

7.3 Specific end uses

No additional information for specific end uses (see Section 1.2).

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Exposure limit values

Description	Type	-	TWA/8 h	TWA/8 h	STEL/15 min	STEL/15 min
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-	-	-	mg/m ³	ppm	mg/m ³	ppm
Inhalable fraction limit value	WEL-TWA	Great Britain	10	0	0	0
Respirable fraction limit value	WEL-TWA	Great Britain	4	-	4	-
Inhalable fraction limit value	-	Ireland	10	-	-	-
Respirable fraction limit value	-	Ireland	4	-	-	-

8.2 Exposure controls

Provide good ventilation and/or if necessary install a system to extract fumes from the processing site.

If dust is created use a fume extraction system.

8.3 Personal protective equipment

Occupational exposure controls

Hand protection

Wear suitable protective gloves when working with large amounts of product. Protective gloves must offer protection against mechanical risks.

Eye protection

It is recommended to wear protective airtight goggles (ref. Standard EN 166). Do not wear contact lenses.

Respiratory protection

Respiratory protection is not necessary if the room is well-ventilated. During processing, use respiratory apparatuses if a considerable amount of dust is generated. The class of the filters must be suitable in relation to the maximum amount of contaminants (gas/vapours/aerosol/particulate) that can be generated during product processing. If the concentration is excessive, a self-contained breathing apparatus must be used.

Body protection

If processed (advisable) wear closed work clothes.

General protection measures

To prevent thermal decomposition avoid overheating. Handle according to good industrial safety and hygiene rules. Wash hands before breaks and at the end of the work shift. When using the product do not drink, eat and smoke. During processing, avoid contact with skin, eyes and clothing. Do not inhale vapour and powder.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Description	Values
Physical state	Polymer film
Odour	Type of polymers
Colour	Yellow
pH	Not relevant
Melting point	Polypropylene TNT: 160 °C TPE (Thermoplastic elastomer): 90 °C
Initial boiling point	Not available.
Flash point	> 250 °C
Vapour pressure	Not available.
Density	1.2 g/m ³
Decomposition temperature	> 250 °C
Auto-ignition temperature	> 300 °C
Solubility in water	Not soluble in water
Explosive properties	The product is not explosive.

9.2 Other information

Solvent content: 0 %

Solid content: 100 %

SECTION 10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability



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Stable if the storage conditions are observed.

Maximum storage time: 24 months.

10.3 Possibility of hazardous reactions

There are no hazardous reactions if handled and stored in observance of the instructions.

10.4 Conditions to be avoided

Protect against frost, heat and direct sunlight.

10.5 Incompatible materials

Strong oxidants and solvents.

10.6 Hazardous decomposition products

If heated until decomposition, the product can release: smoke, carbon black, hydrocarbons, carbon monoxide and dioxide.

The thermal decomposition temperature is $> 250^{\circ}\text{C}$.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Toxicological effects

<i>Acute toxicity (oral)</i>	Based on the available data the classification criteria is not fulfilled.
<i>Acute toxicity (skin)</i>	Based on the available data the classification criteria is not fulfilled.
<i>Acute toxicity (inhalation)</i>	Based on the available data the classification criteria is not fulfilled.
<i>Skin corrosion/irritation</i>	Based on the available data the classification criteria is not fulfilled.
<i>Irritation/Damage to the eyes</i>	Based on the available data the classification criteria is not fulfilled.
<i>Respiratory tract sensitisation</i>	Based on the available data the classification criteria is not fulfilled.
<i>Skin sensitisation</i>	Based on the available data the classification criteria is not fulfilled.
<i>Cell genotoxicity/mutagenicity</i>	Based on the available data the classification criteria is not fulfilled.
<i>Carcinogenicity</i>	Based on the available data the classification criteria is not fulfilled.
<i>Toxic for reproduction</i>	Based on the available data the classification criteria is not fulfilled.
<i>Effects on lactation</i>	Based on the available data the classification criteria is not fulfilled.
<i>Specific toxicity for target organs (STOT) - Single exposure</i>	Based on the available data the classification criteria is not fulfilled.
<i>Specific toxicity for target organs (STOT) - Repeated exposure</i>	Based on the available data the classification criteria is not fulfilled.
<i>Dangers from inhalation</i>	Based on the available data the classification criteria is not fulfilled.

Symptoms

To date there is no known adverse effect if handled correctly.

Processing such as cutting or grinding can generate particles or powder.

When this dust comes into contact with the eyes, it can generate a mechanical irritation.

Inhaling the dust can cause irritation of the respiratory system.

SECTION 12. Ecological information

12.1 Toxicity

Do not release elevated amounts into surface or ground water.

Due to its low water-solubility, the product can be almost completely mechanically separated in biological separation plants.

12.2 Persistence to biodegradability

The substance is not water soluble.

The product is not biodegradable.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water: No data available

12.4 Mobility in the soil

No data available.

12.5 Results of the PBT and vPvB evaluation

This substance does not fulfil the PBT/vPvB requirements of Reach, Annex XIII.

12.6 Other adverse effects

General information: Prevent it from penetrating ground, surface and rain water.



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SECTION 13. Disposal considerations

13.1 Waste processing methods

Product

Waste code 08 4 10: waste of adhesives and sealants other than those indicated in 08 04 09.

Recommendations Disposal must be performed through an authorised facility, in compliance with national and local regulations.

13.2 Contaminated packaging

Recommendations Waste code 150101 - Paper and cardboard packaging
Waste code 151002 - plastic packaging

SECTION 14. Transport information

14.1 Transport rules

The product is not classified as dangerous in accordance with the provisions in force concerning transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

SECTION 15. Regulatory information

15.1 Labelling according to EU Regulation 1272/2008

Product not subject to labelling rules.

15.2 Labelling according to Directive 1999/45/EC

Product not subject to labelling rules.

15.3 EU Directive 1999/13/EC on the limitation of emissions of volatile organic compounds ("VOC" Directive)

The product does not contain volatile organic substances, in accordance with Directive 1999/13/EC.

15.4 Hazard classification for water in accordance with German Regulations

No hazard for water based on the VwVwS self-assessment.

SECTION 16. Other information

KEY:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service NUMBER
- CE50: Concentration that causes effect to 50% of the population subjected to a test
- CE NUMBER: Identification NUMBER in ESIS (European archive of existing substances)
- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Global harmonised system to classify and label Chemical products
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- IC50: Concentration that immobilises 50% of the population subjected to a test
- IMDG: International maritime code for transport of Dangerous Goods
- IMO: International maritime Organization
- INDEX NUMBER: INDEX NUMBER of Annex VI of the CLP
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- OEL: EU occupational exposure limit value
- PBT: Persistent bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable exposure level
- PNEC: Predicted no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- TLV: occupational exposure threshold limit value
- TLV CEILING: concentration that must Not be exceeded during any time of working exposure
- TWA STEL: Short time exposure limit
- TWA: 8-hour time-weighted average exposure limit
- VOC: Volatile organic compound



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- vPvB: Very Persistent and Very bioaccumulative according to REACH

GENERAL BIBLIOGRAPHY:

- EC Regulation No. 1907/2006 of the European Parliament (REACH)
- EC Regulation No. 1272/2008 of the European Parliament (CLP)
- EC Regulation No. 790/2009 of the European Parliament (I Atp. CLP)
- EC Regulation No. 453/2010 of the European Parliament
- EC Regulation No. 286/2011 of the European Parliament (II Atp. CLP)
- The Merck Index. Ed. 10
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989
- ECHA Agency website

Note for the user

The information contained in this data sheet is based on the knowledge available to us at the date of the last version.

The user must verify the suitability and completeness of the information according to each specific use of the product.

This document must not be considered a guarantee of any specific property of the product.

Since product use is not subject to our direct control, the user is obliged, under his own responsibility, to comply with the health and safety regulations and laws in force. We accept no responsibility for improper use.

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Provide adequate training to people in charge of using chemical products.