

## Guttapercha Points

### Coltène/Whaledent GmbH & Co. KG

Version No: 2.2

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **02/11/2022**

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S.GHS.USA.EN

## SECTION 1 Identification

### Product Identifier

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Product name                  | Guttapercha Points                                                       |
| Synonyms                      | Not Available                                                            |
| Proper shipping name          | Environmentally hazardous substance, solid, n.o.s. (contains zinc oxide) |
| Other means of identification | Not Available                                                            |

### Recommended use of the chemical and restrictions on use

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Relevant identified uses | Medical device, for dental use only<br>Use according to manufacturer's directions. |
|--------------------------|------------------------------------------------------------------------------------|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |                                                      |
|-------------------------|------------------------------------------------------|
| Registered company name | Coltène/Whaledent GmbH & Co. KG                      |
| Address                 | Raiffeisenstrasse 30 89129 Langenau Germany          |
| Telephone               | +49 (7345) 805 0                                     |
| Fax                     | +49 (7345) 805 201                                   |
| Website                 | <a href="http://www.coltene.com">www.coltene.com</a> |
| Email                   | msds@coltene.com                                     |

### Emergency phone number

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Association / Organisation        | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone numbers       | +1 855-237-5573                     |
| Other emergency telephone numbers | +61 3 9573 3188                     |

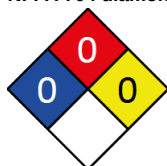
Once connected and if the message is not in your preferred language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

## SECTION 2 Hazard(s) identification

### Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

|                |                                                                                                                                |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|
| Classification | Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1 |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|

Guttapercha Points

Label elements

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Hazard pictogram(s) |  |
| Signal word         | Warning                                                                           |

Hazard statement(s)

|      |                                                       |
|------|-------------------------------------------------------|
| H410 | Very toxic to aquatic life with long lasting effects. |
|------|-------------------------------------------------------|

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

|      |                                   |
|------|-----------------------------------|
| P273 | Avoid release to the environment. |
|------|-----------------------------------|

Precautionary statement(s) Response

|      |                   |
|------|-------------------|
| P391 | Collect spillage. |
|------|-------------------|

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|----------------------------------------------------------------------------------------------------------------------------------|

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No     | %[weight] | Name                        |
|------------|-----------|-----------------------------|
| 1314-13-2  | 50-70     | <u>zinc oxide</u>           |
| 13463-67-7 | 1-5       | <u>C.I. Pigment White 6</u> |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"><li>▸ Wash out immediately with water.</li><li>▸ If irritation continues, seek medical attention.</li><li>▸ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul> |
| Skin Contact | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"><li>▸ Flush skin and hair with running water (and soap if available).</li><li>▸ Seek medical attention in event of irritation.</li></ul>                                                                                        |
| Inhalation   | <ul style="list-style-type: none"><li>▸ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li><li>▸ Other measures are usually unnecessary.</li></ul>                                                                                                                 |
| Ingestion    | <ul style="list-style-type: none"><li>▸ Immediately give a glass of water.</li><li>▸ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li></ul>                                                                                                       |

## Guttapercha Points

**Most important symptoms and effects, both acute and delayed**

See Section 11

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 Fire-fighting measures****Extinguishing media**

- ▶ Water spray or fog.
- ▶ Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

**Special hazards arising from the substrate or mixture**

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

**Special protective equipment and precautions for fire-fighters**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li><li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li><li>▶ Use fire fighting procedures suitable for surrounding area.</li><li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li><li>▶ Cool fire exposed containers with water spray from a protected location.</li><li>▶ If safe to do so, remove containers from path of fire.</li><li>▶ Equipment should be thoroughly decontaminated after use.</li></ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"><li>▶ Non combustible.</li><li>▶ Not considered a significant fire risk, however containers may burn.</li></ul> Decomposition may produce toxic fumes of:<br>metal oxides                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**SECTION 6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | Environmental hazard - contain spillage. <ul style="list-style-type: none"><li>▶ Clean up all spills immediately.</li><li>▶ Avoid contact with skin and eyes.</li><li>▶ Wear impervious gloves and safety glasses.</li><li>▶ Use dry clean up procedures and avoid generating dust.</li><li>▶ Vacuum up.</li><li>▶ Do NOT use air hoses for cleaning</li><li>▶ Place spilled material in clean, dry, sealable, labelled container.</li></ul>                                                                                                                                                                                                                             |
| <b>Major Spills</b> | Environmental hazard - contain spillage. <ul style="list-style-type: none"><li>▶ Clear area of personnel and move upwind.</li><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ Control personal contact with the substance, by using protective equipment and dust respirator.</li><li>▶ Prevent spillage from entering drains, sewers or water courses.</li><li>▶ Avoid generating dust.</li><li>▶ Sweep, shovel up. Recover product wherever possible.</li><li>▶ Put residues in labelled plastic bags or other containers for disposal.</li><li>▶ If contamination of drains or waterways occurs, advise emergency services.</li></ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

Continued...

## Guttapercha Points

## SECTION 7 Handling and storage

## Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"> <li>▸ Limit all unnecessary personal contact.</li> <li>▸ Wear protective clothing when risk of exposure occurs.</li> <li>▸ Use in a well-ventilated area.</li> <li>▸ Avoid contact with incompatible materials.</li> <li>▸ When handling, <b>DO NOT eat, drink or smoke.</b></li> <li>▸ Avoid physical damage to containers.</li> <li>▸ Always wash hands with soap and water after handling.</li> <li>▸ Work clothes should be laundered separately.</li> <li>▸ Use good occupational work practice.</li> </ul> |
| Other information | <ul style="list-style-type: none"> <li>▸ Store in original containers.</li> <li>▸ Keep containers securely sealed.</li> <li>▸ Store away from incompatible materials and foodstuff containers.</li> </ul>                                                                                                                                                                                                                                                                                                                                           |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"> <li>▸ Packing as recommended by manufacturer.</li> <li>▸ Check all containers are clearly labelled and free from leaks.</li> </ul>                                                                     |
| Storage incompatibility | <ul style="list-style-type: none"> <li>▸ Store in original containers.</li> <li>▸ Store in a cool, dry area protected from environmental extremes.</li> <li>▸ Store away from incompatible materials and foodstuff containers.</li> </ul> |

## SECTION 8 Exposure controls / personal protection

## Control parameters

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA

| Source                                               | Ingredient           | Material name                               | TWA                 | STEL          | Peak          | Notes              |
|------------------------------------------------------|----------------------|---------------------------------------------|---------------------|---------------|---------------|--------------------|
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | zinc oxide           | Zinc oxide- Respirable fraction             | 5 mg/m3             | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | zinc oxide           | Zinc oxide- Total dust                      | 15 mg/m3            | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | zinc oxide           | Zinc oxide fume                             | 5 mg/m3             | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | zinc oxide           | Inert or Nuisance Dust: Total Dust          | 15 mg/m3 / 50 mppcf | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | zinc oxide           | Inert or Nuisance Dust: Respirable fraction | 5 mg/m3 / 15 mppcf  | Not Available | Not Available | Not Available      |
| US NIOSH Recommended Exposure Limits (RELs)          | zinc oxide           | Zinc oxide - Dust                           | 5 mg/m3             | Not Available | 15 mg/m3      | Not Available      |
| US NIOSH Recommended Exposure Limits (RELs)          | zinc oxide           | Zinc oxide - Fume                           | 5 mg/m3             | 10 mg/m3      | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | C.I. Pigment White 6 | Titanium dioxide - Total dust               | 15 mg/m3            | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | C.I. Pigment White 6 | Inert or Nuisance Dust: Total Dust          | 15 mg/m3 / 50 mppcf | Not Available | Not Available | Not Available      |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | C.I. Pigment White 6 | Inert or Nuisance Dust: Respirable fraction | 5 mg/m3 / 15 mppcf  | Not Available | Not Available | Not Available      |
| US NIOSH Recommended Exposure Limits (RELs)          | C.I. Pigment White 6 | Titanium dioxide                            | Not Available       | Not Available | Not Available | Ca; See Appendix A |

Continued...

Guttapercha Points

Emergency Limits

| Ingredient           | TEEL-1   | TEEL-2    | TEEL-3      |
|----------------------|----------|-----------|-------------|
| zinc oxide           | 10 mg/m3 | 15 mg/m3  | 2,500 mg/m3 |
| C.I. Pigment White 6 | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |

| Ingredient           | Original IDLH | Revised IDLH  |
|----------------------|---------------|---------------|
| zinc oxide           | 500 mg/m3     | Not Available |
| C.I. Pigment White 6 | 5,000 mg/m3   | Not Available |

Exposure controls

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls                                      | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Individual protection measures, such as personal protective equipment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Eye and face protection                                               | <ul style="list-style-type: none"><li>▸ Safety glasses with side shields</li><li>▸ Chemical goggles.</li><li>▸ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li></ul> |
| Skin protection                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hands/feet protection                                                 | <p>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</p> <ul style="list-style-type: none"><li>▸ polychloroprene.</li><li>▸ nitrile rubber.</li><li>▸ butyl rubber.</li><li>▸ fluorocautchouc.</li><li>▸ polyvinyl chloride.</li></ul> <p>Gloves should be examined for wear and/ or degradation constantly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Body protection                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Other protection                                                      | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"><li>▸ Overalls.</li><li>▸ Barrier cream.</li><li>▸ Eyewash unit.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

|            |               |  |  |
|------------|---------------|--|--|
| Appearance | Not Available |  |  |
|------------|---------------|--|--|

|                  |               |                                         |               |
|------------------|---------------|-----------------------------------------|---------------|
| Physical state   | Solid         | Relative density (Water = 1)            | Not Available |
| Odour            | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold  | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature (°C)          | Not Available |

Guttapercha Points

|                                                |               |                                                     |                |
|------------------------------------------------|---------------|-----------------------------------------------------|----------------|
| Melting point / freezing point (°C)            | Not Available | Viscosity (cSt)                                     | Not Available  |
| Initial boiling point and boiling range (°C)   | Not Available | Molecular weight (g/mol)                            | Not Available  |
| Flash point (°C)                               | Not Available | Taste                                               | Not Available  |
| Evaporation rate                               | Not Available | Explosive properties                                | Not Available  |
| Flammability                                   | Not Available | Oxidising properties                                | Not Available  |
| Upper Explosive Limit (%)                      | Not Available | Surface Tension (dyn/cm or mN/m)                    | Not Applicable |
| Lower Explosive Limit (%)                      | Not Available | Volatile Component (%vol)                           | Not Available  |
| Vapour pressure (kPa)                          | Not Available | Gas group                                           | Not Available  |
| Solubility in water                            | Immiscible    | pH as a solution (1%)                               | Not Available  |
| Vapour density (Air = 1)                       | Not Available | VOC g/L                                             | Not Available  |
| Heat of Combustion (kJ/g)                      | Not Available | Ignition Distance (cm)                              | Not Available  |
| Flame Height (cm)                              | Not Available | Flame Duration (s)                                  | Not Available  |
| Enclosed Space Ignition Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition Deflagration Density (g/m3) | Not Available  |

SECTION 10 Stability and reactivity

|                                    |                                                                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | See section 7                                                                                                                                                     |
| Chemical stability                 | <div>▶ Unstable in the presence of incompatible materials.</div> <div>▶ Product is considered stable.</div> <div>▶ Hazardous polymerisation will not occur.</div> |
| Possibility of hazardous reactions | See section 7                                                                                                                                                     |
| Conditions to avoid                | See section 7                                                                                                                                                     |
| Incompatible materials             | See section 7                                                                                                                                                     |
| Hazardous decomposition products   | See section 5                                                                                                                                                     |

SECTION 11 Toxicological information

Information on toxicological effects

| Guttapercha Points                                  | <table><tr><th>TOXICITY</th><th>IRRITATION</th></tr><tr><td>Not Available</td><td>Not Available</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                       | TOXICITY | IRRITATION | Not Available                                       | Not Available                                                   |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------|--|------------------------------------------------------------------|
| TOXICITY                                            | IRRITATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| Not Available                                       | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| zinc oxide                                          | <table><tr><th>TOXICITY</th><th>IRRITATION</th></tr><tr><td>dermal (rat) LD50: &gt;2000 mg/kg<sup>[1]</sup></td><td>Eye (rabbit) : 500 mg/24 h - mild</td></tr><tr><td>Inhalation (Rat) LC50: &gt;1.79 mg/l4h<sup>[1]</sup></td><td>Eye: no adverse effect observed (not irritating)<sup>[1]</sup></td></tr><tr><td>Oral (Rat) LD50: &gt;5000 mg/kg<sup>[1]</sup></td><td>Skin (rabbit) : 500 mg/24 h- mild</td></tr><tr><td></td><td>Skin: no adverse effect observed (not irritating)<sup>[1]</sup></td></tr></table> | TOXICITY | IRRITATION | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>       | Eye (rabbit) : 500 mg/24 h - mild                               | Inhalation (Rat) LC50: >1.79 mg/l4h <sup>[1]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup> | Oral (Rat) LD50: >5000 mg/kg <sup>[1]</sup>  | Skin (rabbit) : 500 mg/24 h- mild                                |  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| TOXICITY                                            | IRRITATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>       | Eye (rabbit) : 500 mg/24 h - mild                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| Inhalation (Rat) LC50: >1.79 mg/l4h <sup>[1]</sup>  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| Oral (Rat) LD50: >5000 mg/kg <sup>[1]</sup>         | Skin (rabbit) : 500 mg/24 h- mild                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
|                                                     | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| C.I. Pigment White 6                                | <table><tr><th>TOXICITY</th><th>IRRITATION</th></tr><tr><td>dermal (hamster) LD50: &gt;=10000 mg/kg<sup>[2]</sup></td><td>Eye: no adverse effect observed (not irritating)<sup>[1]</sup></td></tr><tr><td>Inhalation (Rat) LC50: &gt;2.28 mg/l4h<sup>[1]</sup></td><td>Skin (rabbit) Draize 0.3mg/3hrInt Mild</td></tr><tr><td>Oral (Rat) LD50: &gt;=2000 mg/kg<sup>[1]</sup></td><td>Skin: no adverse effect observed (not irritating)<sup>[1]</sup></td></tr></table>                                                 | TOXICITY | IRRITATION | dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup> | Inhalation (Rat) LC50: >2.28 mg/l4h <sup>[1]</sup> | Skin (rabbit) Draize 0.3mg/3hrInt Mild                          | Oral (Rat) LD50: >=2000 mg/kg <sup>[1]</sup> | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |  |                                                                  |
| TOXICITY                                            | IRRITATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| dermal (hamster) LD50: >=10000 mg/kg <sup>[2]</sup> | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| Inhalation (Rat) LC50: >2.28 mg/l4h <sup>[1]</sup>  | Skin (rabbit) Draize 0.3mg/3hrInt Mild                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |
| Oral (Rat) LD50: >=2000 mg/kg <sup>[1]</sup>        | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |            |                                                     |                                                                 |                                                    |                                                                 |                                              |                                                                  |  |                                                                  |

Guttapercha Points

|         |                                                                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✗ |
| Skin Irritation/Corrosion         | ✗ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✗ | STOT - Single Exposure   | ✗ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

Legend: ✗ – Data either not available or does not fill the criteria for classification  
✔ – Data available to make classification

SECTION 12 Ecological information

Toxicity

|                      |                                                                                                                                                                                                                                                                                                                          |                    |                               |               |               |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|---------------|---------------|
| Guttapercha Points   | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                      | Not Available                                                                                                                                                                                                                                                                                                            | Not Available      | Not Available                 | Not Available | Not Available |
| zinc oxide           | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                      | BCF                                                                                                                                                                                                                                                                                                                      | 1344h              | Fish                          | 19-110        | 7             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | 0.022mg/L     | 2             |
|                      | ErC50                                                                                                                                                                                                                                                                                                                    | 72h                | Algae or other aquatic plants | 0.62mg/l      | 2             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 0.105mg/L     | 2             |
|                      | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 0.102mg/L     | 2             |
|                      | EC10(ECx)                                                                                                                                                                                                                                                                                                                | 168h               | Algae or other aquatic plants | 0.003mg/L     | 2             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 96h                | Algae or other aquatic plants | 0.042mg/L     | 2             |
| C.I. Pigment White 6 | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source        |
|                      | BCF                                                                                                                                                                                                                                                                                                                      | 1008h              | Fish                          | <1.1-9.6      | 7             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | 3.75-7.58mg/l | 4             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 1.9mg/l       | 2             |
|                      | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 1.85-3.06mg/l | 4             |
|                      | NOEC(ECx)                                                                                                                                                                                                                                                                                                                | 672h               | Fish                          | >=0.004mg/L   | 2             |
|                      | EC50                                                                                                                                                                                                                                                                                                                     | 96h                | Algae or other aquatic plants | 179.05mg/l    | 2             |
| Legend:              | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |               |               |

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

|                      |                         |                  |
|----------------------|-------------------------|------------------|
| Ingredient           | Persistence: Water/Soil | Persistence: Air |
| C.I. Pigment White 6 | HIGH                    | HIGH             |

Bioaccumulative potential

|                      |                 |
|----------------------|-----------------|
| Ingredient           | Bioaccumulation |
| zinc oxide           | LOW (BCF = 217) |
| C.I. Pigment White 6 | LOW (BCF = 10)  |

Mobility in soil

|            |          |
|------------|----------|
| Ingredient | Mobility |
|------------|----------|

Guttapercha Points

| Ingredient           | Mobility              |
|----------------------|-----------------------|
| C.I. Pigment White 6 | LOW (Log KOC = 23.74) |

SECTION 13 Disposal considerations

Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | Dispose of waste according to applicable legislation. Special country-specific regulations may apply. Can be disposed together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge. (Only dispose of completely emptied packages.) |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 14 Transport information

Labels Required

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant |  |

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

|                                    |                                                                          |                                                                      |  |
|------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------|--|
| 14.1. UN number or ID number       | 3077                                                                     |                                                                      |  |
| 14.2. UN proper shipping name      | Environmentally hazardous substance, solid, n.o.s. (contains zinc oxide) |                                                                      |  |
| 14.3. Transport hazard class(es)   | Class                                                                    | 9                                                                    |  |
|                                    | Subsidiary Hazard                                                        | Not Applicable                                                       |  |
| 14.4. Packing group                | III                                                                      |                                                                      |  |
| 14.5. Environmental hazard         | Environmentally hazardous                                                |                                                                      |  |
| 14.6. Special precautions for user | Hazard Label                                                             | 9                                                                    |  |
|                                    | Special provisions                                                       | 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33 |  |

For Individual Packages of Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 that contain LESS THAN the reportable quantity (5 kg or 5 L) - Not Regulated  
For Individual Packages of Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 that contain MORE THAN the reportable quantity (5 kg or 5 L) - Regulated and classified as below:

Air transport (ICAO-IATA / DGR)

|                                  |                                                                          |                |  |
|----------------------------------|--------------------------------------------------------------------------|----------------|--|
| 14.1. UN number                  | 3077                                                                     |                |  |
| 14.2. UN proper shipping name    | Environmentally hazardous substance, solid, n.o.s. (contains zinc oxide) |                |  |
| 14.3. Transport hazard class(es) | ICAO/IATA Class                                                          | 9              |  |
|                                  | ICAO / IATA Subsidiary Hazard                                            | Not Applicable |  |
|                                  | ERG Code                                                                 | 9L             |  |
| 14.4. Packing group              | III                                                                      |                |  |
| 14.5. Environmental hazard       | Environmentally hazardous                                                |                |  |



## Guttapercha Points

|                                    |                                                           |                         |
|------------------------------------|-----------------------------------------------------------|-------------------------|
| 14.6. Special precautions for user | Special provisions                                        | A97 A158 A179 A197 A215 |
|                                    | Cargo Only Packing Instructions                           | 956                     |
|                                    | Cargo Only Maximum Qty / Pack                             | 400 kg                  |
|                                    | Passenger and Cargo Packing Instructions                  | 956                     |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | 400 kg                  |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Y956                    |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G                 |

## Sea transport (IMDG-Code / GGVSee)

|                                    |                                                                          |                     |
|------------------------------------|--------------------------------------------------------------------------|---------------------|
| 14.1. UN number                    | 3077                                                                     |                     |
| 14.2. UN proper shipping name      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide) |                     |
| 14.3. Transport hazard class(es)   | IMDG Class                                                               | 9                   |
|                                    | IMDG Subsidiary Hazard                                                   | Not Applicable      |
| 14.4. Packing group                | III                                                                      |                     |
| 14.5. Environmental hazard         | Marine Pollutant                                                         |                     |
| 14.6. Special precautions for user | EMS Number                                                               | F-A , S-F           |
|                                    | Special provisions                                                       | 274 335 966 967 969 |
|                                    | Limited Quantities                                                       | 5 kg                |

## 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name         | Group         |
|----------------------|---------------|
| zinc oxide           | Not Available |
| C.I. Pigment White 6 | Not Available |

## 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name         | Ship Type     |
|----------------------|---------------|
| zinc oxide           | Not Available |
| C.I. Pigment White 6 | Not Available |

## SECTION 15 Regulatory information

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

Guttapercha Points

zinc oxide is found on the following regulatory lists

- International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
- US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5
- US - Massachusetts - Right To Know Listed Chemicals
- US CWA (Clean Water Act) - Priority Pollutants
- US CWA (Clean Water Act) - Toxic Pollutants
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US EPA Integrated Risk Information System (IRIS)
- US EPCRA Section 313 Chemical List
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US OSHA Permissible Exposure Limits (PELs) Table Z-1 (Spanish)
- US OSHA Permissible Exposure Limits (PELs) Table Z-3
- US OSHA Permissible Exposure Limits (PELs) Table Z-3 (Spanish)
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

C.I. Pigment White 6 is found on the following regulatory lists

- Chemical Footprint Project - Chemicals of High Concern List
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
- International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
- US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5
- US - California Proposition 65 - Carcinogens
- US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List
- US - Massachusetts - Right To Know Listed Chemicals
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US NIOSH Carcinogen List
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US OSHA Permissible Exposure Limits (PELs) Table Z-1 (Spanish)
- US OSHA Permissible Exposure Limits (PELs) Table Z-3
- US OSHA Permissible Exposure Limits (PELs) Table Z-3 (Spanish)
- US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

|                                                 |    |
|-------------------------------------------------|----|
| Flammable (Gases, Aerosols, Liquids, or Solids) | No |
| Gas under pressure                              | No |
| Explosive                                       | No |
| Self-heating                                    | No |
| Pyrophoric (Liquid or Solid)                    | No |
| Pyrophoric Gas                                  | No |
| Corrosive to metal                              | No |
| Oxidizer (Liquid, Solid or Gas)                 | No |
| Organic Peroxide                                | No |
| Self-reactive                                   | No |
| In contact with water emits flammable gas       | No |
| Combustible Dust                                | No |
| Carcinogenicity                                 | No |
| Acute toxicity (any route of exposure)          | No |

Continued...

Guttapercha Points

|                                                              |    |
|--------------------------------------------------------------|----|
| Reproductive toxicity                                        | No |
| Skin Corrosion or Irritation                                 | No |
| Respiratory or Skin Sensitization                            | No |
| Serious eye damage or eye irritation                         | No |
| Specific target organ toxicity (single or repeated exposure) | No |
| Aspiration Hazard                                            | No |
| Germ cell mutagenicity                                       | No |
| Simple Asphyxiant                                            | No |
| Hazards Not Otherwise Classified                             | No |

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

| CAS No    | %[weight] | Name       |
|-----------|-----------|------------|
| 1314-13-2 | 50-70     | zinc oxide |

This information must be included in all SDSs that are copied and distributed for this material.

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65

 **WARNING:** This product can expose you to chemicals including **C.I. Pigment White 6**, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Additional State Regulatory Information

Not Applicable

National Inventory Status

| National Inventory                              | Status                    |
|-------------------------------------------------|---------------------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes                       |
| Canada - DSL                                    | Yes                       |
| Canada - NDSL                                   | No (C.I. Pigment White 6) |
| China - IECSC                                   | Yes                       |
| Europe - EINEC / ELINCS / NLP                   | Yes                       |
| Japan - ENCS                                    | Yes                       |
| Korea - KECI                                    | Yes                       |
| New Zealand - NZIoC                             | Yes                       |
| Philippines - PICCS                             | Yes                       |
| USA - TSCA                                      | Yes                       |
| Taiwan - TCSI                                   | Yes                       |
| Mexico - INSQ                                   | Yes                       |
| Vietnam - NCI                                   | Yes                       |
| Russia - FBEPH                                  | Yes                       |

## Guttapercha Points

| National Inventory | Status                                                                                                                                                                                                          |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Legend:</b>     | <i>Yes = All CAS declared ingredients are on the inventory</i><br><i>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</i> |

## SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 02/11/2022 |
| Initial Date  | 31/01/2022 |

## SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                                                                                                         |
|---------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.2     | 02/11/2022     | Toxicological information - Chronic Health, Hazards identification - Classification, Exposure controls / personal protection - Exposure Standard, Composition / information on ingredients - Ingredients |

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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Guttapercha Points