



# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK  
REACH Regulation SI 2019/758

MOTO CHAIN PASTE

SDS no. 33929  
:

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

**Product name** : MOTO CHAIN PASTE  
**Product code** : 33929  
**Product description** : Not available.  
**Product type** : Solid.  
**Other means of identification** : Not available.

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

#### Identified uses

Lubricating grease

#### Uses advised against

Not applicable.

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

TotalEnergies Lubrifiants  
562 Avenue du Parc de L'île  
92029 Nanterre Cedex FRANCE  
Tél: +33 (0)1 41 35 40 00  
Fax: +33 (0)1 41 35 84 71  
rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited  
10 Upper Bank Street (19th floor)  
Canary Wharf,  
London E14 5BF  
UNITED KINGDOM  
Tel: +44 (0)20 7339 8000  
Fax: +44 (0)20 7339 8033  
rm.gb-msds@totalenergies.com

H.S.E

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : National Poisons Information Service (NPIS): 111

#### Supplier

**Telephone number** : Emergency telephone: +44 1235 239670



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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

**Ingredients of unknown ecotoxicity** : Contains 14.2% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Signal word** : No signal word.

**Hazard statements** : H412 - Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

**Prevention** : P273 - Avoid release to the environment.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Not applicable.

**Labelling element REACh Annex XVII** : Not applicable.

### 2.3 Other hazards

#### **Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration  $\geq 0,1$  %.

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture



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## SECTION 3: Composition/information on ingredients

| Product/ingredient name    | Identifiers                                                                             | %  | Classification                                                                                                                                  | Type    |
|----------------------------|-----------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Limestone                  | EC: 215-279-6<br>CAS: 1317-65-3                                                         | ≤5 | Not classified.                                                                                                                                 | [2]     |
| titanium dioxide           | REACH #:<br>01-2119489379-17<br>EC: 236-675-5<br>CAS: 13463-67-7<br>Index: 022-006-00-2 | ≤1 | Not classified.                                                                                                                                 | [2]     |
| 2,6-di-tert-butyl-p-cresol | REACH #:<br>01-2119555270-46<br>01-2119565113-46<br>EC: 204-881-4<br>CAS: 128-37-0      | ≤1 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2] |

**Additional information** : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking



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## SECTION 4: First aid measures

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : carbon monoxide  
carbon dioxide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up



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## SECTION 6: Accidental release measures

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.  
☒ See Section 10 for incompatible materials before handling or use.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

☒ Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

- Recommendations** : ☒ Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits



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## SECTION 8: Exposure controls/personal protection

| Product/substance          | Exposure limit values                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limestone                  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [limestone]</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> . Form: total inhalable.<br>TWA 8 hours: 4 mg/m <sup>3</sup> . Form: respirable.<br><b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [calcium carbonate]</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> . Form: inhalable dust.<br>TWA 8 hours: 4 mg/m <sup>3</sup> . Form: respirable dust. |
| titanium dioxide           | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> . Form: total inhalable.<br>TWA 8 hours: 4 mg/m <sup>3</sup> . Form: respirable.                                                                                                                                                                                                                  |
| 2,6-di-tert-butyl-p-cresol | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> .                                                                                                                                                                                                                                                                                                 |

### Biological Limit Values (BLV)

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Advisory OEL** : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

### DNELs/DMELs

| Product/substance          | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| titanium dioxide           | <b>DNEL - General population - Long term - Inhalation</b><br>28 µg/m <sup>3</sup><br><u>Effects</u> : Local<br><br><b>DNEL - Workers - Long term - Inhalation</b><br>170 µg/m <sup>3</sup><br><u>Effects</u> : Local                                                                                                                                                                                                                                                                                   |
| 2,6-di-tert-butyl-p-cresol | <b>DNEL - General population - Long term - Oral</b><br>0.25 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - General population - Long term - Dermal</b><br>0.25 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - General population - Long term - Inhalation</b><br>0.435 mg/m <sup>3</sup><br><u>Effects</u> : Systemic<br><br><b>DNEL - Workers - Long term - Dermal</b><br>0.5 mg/kg bw/day<br><u>Effects</u> : Systemic<br><br><b>DNEL - Workers - Long term - Inhalation</b> |



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## SECTION 8: Exposure controls/personal protection

1.76 mg/m<sup>3</sup>  
Effects: Systemic

### PNECs

| Product/substance          | Result                                          |
|----------------------------|-------------------------------------------------|
| Titanium dioxide           | <b>Fresh water</b><br>0.127 mg/l                |
|                            | <b>Marine water</b><br>1 mg/l                   |
|                            | <b>Fresh water sediment</b><br>1000 mg/kg dwt   |
|                            | <b>Marine water sediment</b><br>100 mg/kg dwt   |
|                            | <b>Soil</b><br>100 mg/kg dwt                    |
|                            | <b>Sewage Treatment Plant</b><br>100 mg/l       |
|                            |                                                 |
| 2,6-di-tert-butyl-p-cresol | <b>Fresh water</b><br>199 ng/l                  |
|                            | <b>Marine water</b><br>19.9 ng/l                |
|                            | <b>Fresh water sediment</b><br>458.19 µg/kg dwt |
|                            | <b>Soil</b><br>53.9 µg/kg dwt                   |
|                            | <b>Sewage Treatment Plant</b><br>17 µg/l        |
|                            | <b>Marine water sediment</b><br>45.82 µg/kg dwt |
|                            | <b>Secondary Poisoning</b><br>16.67 mg/kg       |

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : In case of contact through splashing: safety glasses with side-shields, EN 166.



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## SECTION 8: Exposure controls/personal protection

### Skin protection

#### Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Hydrocarbon-proof gloves

nitrile rubber

Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

#### Body protection

- : Wear work clothing with long sleeves.  
Protective shoes or boots.

#### Respiratory protection

- : Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of inadequate ventilation wear respiratory protection: Type A/P1. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

#### Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Solid. [grease]

Colour : Beige.

Odour : Characteristic.

Melting point/freezing point : >250°C

Initial boiling point and boiling range : Not applicable.

Flammability (solid, gas) : Yes.

Upper/lower flammability or explosive limits : Not applicable.

Flash point : Open cup: Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : >250°C



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## SECTION 9: Physical and chemical properties

**pH** : Not applicable. Product is non-soluble (in water).

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not applicable.

**Solubility(ies)** :

| Media | Result      |
|-------|-------------|
| water | Not soluble |

**Miscible with water** : No.

**Partition coefficient: n-octanol/ water** : >3.5

**Vapour pressure** : Not applicable.

**Relative density** : 0.93

**Density** : 0.93 g/cm<sup>3</sup> [20°C (68°F)]

**Vapour density** : Not applicable.

### Particle characteristics

**Median particle size** : Not available.

### 9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Strong oxidising agents

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

#### Acute toxicity

| Product/substance | Result |
|-------------------|--------|
|                   |        |



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## SECTION 11: Toxicological information

Limestone

**Rat - Oral - LD50**

>5000 mg/kg

titanium dioxide

**Rat - Oral - LD50**

>5000 mg/kg

OECD [425]

**Rabbit - Dermal - LD50**

>10000 mg/kg

**Rat - Inhalation - LC50 Dusts and mists**

6.82 mg/l [4 hours]

2,6-di-tert-butyl-p-cresol

**Rat - Oral - LD50**

>6000 mg/kg

OECD [401]

**Rat - Dermal - LD50**

>2000 mg/kg

OECD [402]

### Acute toxicity estimates

| Product/substance | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| titanium dioxide  | N/A          | N/A            | N/A                      | N/A                         | 6.82                                |

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

### Respiratory corrosion/irritation

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

#### **Skin**

Based on available data, the classification criteria are not met.

#### **Respiratory**

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.



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## SECTION 11: Toxicological information

### Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

Not available.

### Potential acute health effects

- |                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Eye contact</b>  | : No known significant effects or critical hazards.             |
| <b>Inhalation</b>   | : No known significant effects or critical hazards.             |
| <b>Skin contact</b> | : Defatting to the skin. May cause skin dryness and irritation. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards.             |

### Symptoms related to the physical, chemical and toxicological characteristics

- |                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : No specific data.                                                                |
| <b>Inhalation</b>   | : No specific data.                                                                |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking |
| <b>Ingestion</b>    | : No specific data.                                                                |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- |                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

- |                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

### Potential chronic health effects

- |                              |                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------|
| <b>General</b>               | : No known significant effects or critical hazards.                                     |
| <b>Carcinogenicity</b>       | : <input checked="" type="checkbox"/> No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                     |
| <b>Reproductive toxicity</b> | : No known significant effects or critical hazards.                                     |

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

☒ The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.



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## SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects.

### 12.1 Toxicity

| Product/substance          | Result                                                                                                                                      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Titanium dioxide           | <b>Acute - LC50 - Marine water</b><br>Fish - Mummichog - <i>Fundulus heteroclitus</i><br>>1000 mg/l [96 hours]<br><u>Effect</u> : Mortality |
|                            | <b>Acute - EC50</b><br>Algae - <i>Pseudokirchnerella subcapitata</i><br>16 mg/l [72 hours]                                                  |
|                            | <b>Acute - EC50</b><br>Algae - <i>Skeletonema costatum</i><br>>10000 mg/l [72 hours]                                                        |
|                            | <b>Acute - LC50</b><br>Fish - <i>Pimephales promelas</i><br>>1000 mg/l [96 hours]                                                           |
|                            | <b>Acute - EC50</b><br>OECD [202]<br>Daphnia<br>>100 mg/l [48 hours]                                                                        |
|                            | <b>Acute - NOEC</b><br>Algae<br>5600 mg/l [72 hours]                                                                                        |
| 2,6-di-tert-butyl-p-cresol | <b>Acute - LC50</b><br>OECD 203<br>Fish - <i>Oryzias latipes</i><br>1.1 mg/l [96 hours]                                                     |
|                            | <b>Acute - EC50</b><br>OECD 202<br>Crustaceans - <i>Daphnia magna</i><br>0.48 mg/l [48 hours]<br><u>Effect</u> : Mobility                   |
|                            | <b>Chronic - NOEC</b><br>OECD 210<br>Fish - <i>Danio rerio</i><br>0.053 mg/l [30 days]<br><u>Effect</u> : Mortality                         |
|                            | <b>Chronic - NOEC</b><br>OECD 211<br>Daphnia - <i>Daphnia magna</i><br>0.07 mg/l [21 days]<br><u>Effect</u> : Reproduction                  |
|                            | <b>Chronic - EC10</b><br>OECD 201                                                                                                           |
|                            |                                                                                                                                             |



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## SECTION 12: Ecological information

Algae - *Desmodesmus subspicatus*

0.4 mg/l [72 hours]

Effect: (growth rate)

**Chronic - NOEC - Fresh water**

OECD

Daphnia - Water flea - *Daphnia magna*

0.069 mg/l [21 days]

Effect: Reproduction

**Acute - LC50 - Fresh water**

OECD

Fish - Medaka, high-eyes - *Oryzias latipes*

1.1 mg/l [96 hours]

Effect: Mortality

### 12.2 Persistence and degradability

| Product/substance          | Result                                    |
|----------------------------|-------------------------------------------|
| 2,6-di-tert-butyl-p-cresol | OECD 301C<br>4.5% [28 days] - Not readily |

| Product/substance          | Aquatic half-life | Photolysis | Biodegradability |
|----------------------------|-------------------|------------|------------------|
| Limestone                  | -                 | -          | Not readily      |
| 2,6-di-tert-butyl-p-cresol | -                 | -          | Not readily      |

### 12.3 Bioaccumulative potential

| Product/substance          | LogK <sub>ow</sub> | BCF  | Potential |
|----------------------------|--------------------|------|-----------|
| MOTO CHAIN PASTE           | >3.5               | -    | Low       |
| 2,6-di-tert-butyl-p-cresol | 5.1                | 1277 | High      |

### 12.4 Mobility in soil

#### Soil/water partition coefficient

| Product/substance          | logK <sub>oc</sub> | K <sub>oc</sub> |
|----------------------------|--------------------|-----------------|
| 2,6-di-tert-butyl-p-cresol | 3.65               | 4489.84         |
| methanol                   | 0.44               | 2.75443         |

#### Results of PMT and vPvM assessment

| Product/substance          | PMT | P  | M   | T  | vPvM | vP | vM  |
|----------------------------|-----|----|-----|----|------|----|-----|
| 2,6-di-tert-butyl-p-cresol | No  | No | No  | No | No   | No | No  |
| methanol                   | No  | No | Yes | No | No   | No | Yes |

**Mobility** : Not available.

**Mobility in soil** : Given its physical and chemical characteristics, the product has no soil mobility.  
The product is insoluble and floats on water. Loss by evaporation is limited

### 12.5 Results of PBT and vPvB assessment



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## SECTION 12: Ecological information

| Product/substance          | PBT | P  | B  | T  | vPvB | vP | vB |
|----------------------------|-----|----|----|----|------|----|----|
| Limestone                  | No  | No | No | No | No   | No | No |
| titanium dioxide           | No  | No | No | No | No   | No | No |
| 2,6-di-tert-butyl-p-cresol | No  | No | No | No | No   | No | No |

### 12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 12 01 12\*

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                              | ADR/RID        | ADN                                                                                     | IMDG           | ICAO/IATA      |
|------------------------------|----------------|-----------------------------------------------------------------------------------------|----------------|----------------|
| 14.1 UN number or ID number  | Not regulated. | 9005                                                                                    | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | -              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (2,6-di-tert-butyl-p-cresol) | -              | -              |



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## SECTION 14: Transport information

|                                 |     |     |     |     |
|---------------------------------|-----|-----|-----|-----|
| 14.3 Transport hazard class(es) | -   | 9   | -   | -   |
| 14.4 Packing group              | -   | -   | -   | -   |
| 14.5 Environmental hazards      | No. | No. | No. | No. |

### Additional information

**ADN** : The product is only regulated as a dangerous good when transported in tank vessels.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

#### UK (GB)/REACH

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

##### Ozone depleting substances

Not listed.

##### Prior Informed Consent (PIC)

Not listed.

##### Persistent Organic Pollutants

Not listed.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### EU regulations

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. DIRECTIVE 2008/68/EC related on the inland transport of dangerous goods



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## SECTION 15: Regulatory information

**Industrial emissions  
(integrated pollution  
prevention and control) -  
Air** : Not listed

**Industrial emissions  
(integrated pollution  
prevention and control) -  
Water** : Not listed

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                                                    |                                                                                                                                                    |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Australia inventory (AIIC)</b>                  | : Not determined.                                                                                                                                  |
| <b>Canada inventory</b>                            | : At least one component is not listed in DSL but all such components are listed in NDSL.                                                          |
| <b>China inventory (IECSC)</b>                     | : All components are listed or exempted.                                                                                                           |
| <b>Europe inventory</b>                            | : All components are listed or exempted.                                                                                                           |
| <b>Japan inventory</b>                             | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : All components are listed or exempted. |
| <b>New Zealand Inventory of Chemicals (NZIoC)</b>  | : All components are listed or exempted.                                                                                                           |
| <b>Philippines inventory (PICCS)</b>               | : Not determined.                                                                                                                                  |
| <b>Korea inventory (KECI)</b>                      | : Not determined.                                                                                                                                  |
| <b>Taiwan Chemical Substances Inventory (TCSI)</b> | : All components are listed or exempted.                                                                                                           |
| <b>Thailand inventory</b>                          | : Not determined.                                                                                                                                  |
| <b>Turkey inventory</b>                            | : Not determined.                                                                                                                                  |
| <b>United States inventory (TSCA 8b)</b>           | : All components are listed or exempted.                                                                                                           |
| <b>Vietnam inventory</b>                           | : Not determined.                                                                                                                                  |

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

**15.2 Chemical safety assessment** : Risk management measures and safety conditions of use are included in the relevant sections of the SDS



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## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

: ACGIH = American Conference of Governmental Industrial Hygienists  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
DNEL = Derived No Effect Level  
DMEL = Derived Minimal Effect Level  
DMSO = Dimethyl Sulfoxide  
EC50 = Half maximal effective concentration  
EL50 = median Effective Loading  
EUH statement = CLP-specific Hazard statement  
HSE = Health, Safety and Environment  
IC50 = Half maximal inhibitory concentration  
IDHL = Immediately dangerous to life or health  
LC50 = Median lethal concentration  
LD50 = Median lethal dose  
LL50 = median Lethal Loading  
LogKow = logarithm of the octanol/water partition coefficient  
N/A = Not available  
NIOSH = National Institute of Occupational Safety and Health  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
NOEL = No Observed Effect Level  
NOELR = No observed Effect Loading Rate  
OECD = Organisation for Economic Co-operation and Development  
OEL = Occupational Exposure Limit  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
QSAR = Quantitative Structure–Activity Relationship  
REL = Recommended Exposure Limit  
STEL = Short Term Exposure Limit  
TLV = Threshold Limit Value  
TWA = Time Weight Average  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative  
Unique Formula Identifier (UFI)  
UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

### Procedure used to derive the classification

| Classification          | Justification      |
|-------------------------|--------------------|
| Aquatic Chronic 3, H412 | Calculation method |

### Full text of abbreviated H statements

|      |                                                       |
|------|-------------------------------------------------------|
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

### Full text of classifications

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |

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## SECTION 16: Other information

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### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.