

# SAFETY DATA SHEET



## GGT-RSC HT

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 05/06/2020  |
| 13.0    | 11/03/2020     | 118106-00018 | Date of first issue: 05/18/2015 |

### SECTION 1. IDENTIFICATION

Product name : GGT-RSC HT

SDS-Identcode : 344G

#### Manufacturer or supplier's details

Company name of supplier : Bestolife Corporation  
Address : 2126 Vanco Drive  
Irving TX 75061,  
Telephone : 855-243-9164/972-865-8961  
Telefax : 214-631-3047  
Emergency telephone : CHEMTREC U.S.: 800-424-9300, International 703-527-3887  
(24-hours/7 days)  
E-mail address : www.bestolife.com

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

Recommended use : Industrial use  
Thread Compound (Pipe Dope) and Jacking grease for use in  
Offshore industries  
Mining, (without offshore industries)  
Restrictions on use : Do not use on oxygen lines or in oxygen enriched atmos-  
pheres.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust, fume, gas, mist, vapors or spray.  
P272 Contaminated work clothing must not be allowed out of  
the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical atten-  
tion.  
P363 Wash contaminated clothing before reuse.

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**Disposal:**

P501 Dispose of contents and container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

| Chemical name                                          | CAS-No.    | Concentration (% w/w) |
|--------------------------------------------------------|------------|-----------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | >= 20 - < 30          |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | >= 20 - < 30          |
| Talc                                                   | 14807-96-6 | >= 20 - < 30          |
| Graphite                                               | 7782-42-5  | >= 20 - < 30          |
| Dolomite                                               | 16389-88-1 | >= 5 - < 10           |
| Dilithium azelate                                      | 38900-29-7 | >= 1 - < 5            |
| Quartz                                                 | 14808-60-7 | >= 1 - < 5            |
| Lubricating oils (petroleum), hydrotreated spent       | 64742-58-1 | >= 1 - < 5            |
| Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony   | 15991-76-1 | >= 1 - < 5            |
| 2,5-Bis(octyldithio)-1,3,4-thiadiazole                 | 13539-13-4 | >= 0.1 - < 1          |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
 When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
 Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
 Remove contaminated clothing and shoes.  
 Get medical attention.  
 Wash clothing before reuse.  
 Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.  
 Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
 Get medical attention if symptoms occur.  
 Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and : May cause an allergic skin reaction.

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delayed  
Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically and supportively.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

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- Advice on safe handling** : For outdoor use only  
Do not get on skin or clothing.  
Avoid breathing dust, fume, gas, mist, vapors or spray.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage** : Keep in properly labeled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid** : Do not store with the following product types:  
Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components                                             | CAS-No.    | Value type<br>(Form of exposure)    | Control parameters / Permissible concentration | Basis     |
|--------------------------------------------------------|------------|-------------------------------------|------------------------------------------------|-----------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | TWA (Mist)                          | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
|                                                        |            | TWA (Inhalable particulate matter)  | 5 mg/m <sup>3</sup>                            | ACGIH     |
|                                                        |            | TWA (Mist)                          | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                                                        |            | ST (Mist)                           | 10 mg/m <sup>3</sup>                           | NIOSH REL |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | TWA (Mist)                          | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
|                                                        |            | TWA (Mist)                          | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                                                        |            | ST (Mist)                           | 10 mg/m <sup>3</sup>                           | NIOSH REL |
| Talc                                                   | 14807-96-6 | TWA (Dust)                          | 20 Million particles per cubic foot            | OSHA Z-3  |
|                                                        |            | TWA (Respirable)                    | 2 mg/m <sup>3</sup>                            | NIOSH REL |
|                                                        |            | TWA (Respirable particulate matter) | 2 mg/m <sup>3</sup>                            | ACGIH     |
| Graphite                                               | 7782-42-5  | TWA (Respirable)                    | 2.5 mg/m <sup>3</sup>                          | NIOSH REL |
|                                                        |            | TWA (Respirable particulate matter) | 2 mg/m <sup>3</sup>                            | ACGIH     |
|                                                        |            | TWA (Dust)                          | 15 Million particles per cubic foot            | OSHA Z-3  |
| Dolomite                                               | 16389-88-1 | TWA (Respirable)                    | 5 mg/m <sup>3</sup> (Calcium car-              | NIOSH REL |

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|                                                              |            |                                                    |                                                  |           |
|--------------------------------------------------------------|------------|----------------------------------------------------|--------------------------------------------------|-----------|
|                                                              |            |                                                    | bonate)                                          |           |
|                                                              |            | TWA (total)                                        | 10 mg/m <sup>3</sup><br>(Calcium car-<br>bonate) | NIOSH REL |
| Quartz                                                       | 14808-60-7 | TWA (Res-<br>pirable dust)                         | 0.05 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                                                              |            | TWA (respir-<br>able)                              | 10 mg/m <sup>3</sup><br>/ %SiO <sub>2</sub> +2   | OSHA Z-3  |
|                                                              |            | TWA (respir-<br>able)                              | 250 mppcf<br>/ %SiO <sub>2</sub> +5              | OSHA Z-3  |
|                                                              |            | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 0.025 mg/m <sup>3</sup><br>(Silica)              | ACGIH     |
|                                                              |            | TWA (Res-<br>pirable dust)                         | 0.05 mg/m <sup>3</sup><br>(Silica)               | NIOSH REL |
|                                                              |            | PEL (respir-<br>able)                              | 0.05 mg/m <sup>3</sup>                           | OSHA CARC |
| Lubricating oils (petroleum),<br>hydrotreated spent          | 64742-58-1 | TWA (Inhal-<br>able particu-<br>late matter)       | 5 mg/m <sup>3</sup>                              | ACGIH     |
| Tris[bis(2-<br>ethylhexyl)dithiocarbamate-<br>S,S'] antimony | 15991-76-1 | TWA                                                | 0.5 mg/m <sup>3</sup><br>(antimony)              | OSHA Z-1  |
|                                                              |            | TWA                                                | 0.5 mg/m <sup>3</sup><br>(antimony)              | ACGIH     |
|                                                              |            | TWA                                                | 0.5 mg/m <sup>3</sup><br>(antimony)              | NIOSH REL |

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

II

Quartz

**Engineering measures** : Minimize workplace exposure concentrations. Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m<sup>3</sup> - respirable particles, 10 mg/m<sup>3</sup> - inhalable particles.

**Personal protective equipment**

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air

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|                          |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.                                                                                                                                                                                           |
| Hand protection          |                                                                                                                                                                                                                                                                                                                                                                                               |
| Material                 | : Chemical-resistant gloves                                                                                                                                                                                                                                                                                                                                                                   |
| Remarks                  | : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Eye protection           | : Wear the following personal protective equipment: Safety glasses                                                                                                                                                                                                                                                                                                                            |
| Skin and body protection | : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.<br>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).                                                                                                                                                           |
| Hygiene measures         | : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.<br>When using do not eat, drink or smoke.<br>Contaminated work clothing should not be allowed out of the workplace.<br>Wash contaminated clothing before re-use.                                                                                          |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                         |                                                                                                                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                              | : Viscous semi-solid                                                                                                                                                             |
| Color                                   | : black                                                                                                                                                                          |
| Odor                                    | : Petroleum                                                                                                                                                                      |
| Odor Threshold                          | : No data available                                                                                                                                                              |
| pH                                      | : Not applicable (not an aqueous solution)                                                                                                                                       |
| Melting point/freezing point            | : No data available                                                                                                                                                              |
| Initial boiling point and boiling range | : No data available                                                                                                                                                              |
| Flash point                             | : $\geq 392\text{ }^{\circ}\text{F}$ / $\geq 200\text{ }^{\circ}\text{C}$<br><br>Method: ASTM D 92, Cleveland open cup<br>Distillates (petroleum), hydrotreated heavy naphthenic |
| Evaporation rate                        | : Not applicable                                                                                                                                                                 |
| Flammability (solid, gas)               | : Not classified as a flammability hazard                                                                                                                                        |

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|                                                  |   |                                                          |
|--------------------------------------------------|---|----------------------------------------------------------|
| Upper explosion limit / Upper flammability limit | : | No data available                                        |
| Lower explosion limit / Lower flammability limit | : | No data available                                        |
| Vapor pressure                                   | : | Not applicable                                           |
| Relative vapor density                           | : | Not applicable                                           |
| Relative density                                 | : | 1.3                                                      |
| Density                                          | : | No data available                                        |
| Solubility(ies)                                  | : |                                                          |
| Water solubility                                 | : | negligible                                               |
| Partition coefficient: n-octanol/water           | : | Not applicable                                           |
| Autoignition temperature                         | : | No data available                                        |
| Decomposition temperature                        | : | No data available                                        |
| Viscosity                                        | : |                                                          |
| Viscosity, dynamic                               | : | No data available                                        |
| Viscosity, kinematic                             | : | Not applicable                                           |
| Flow time                                        | : | No data available                                        |
| Explosive properties                             | : | Not explosive                                            |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight                                 | : | No data available                                        |
| Particle size                                    | : | No data available                                        |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                |
|------------------------------------|---|------------------------------------------------|
| Reactivity                         | : | Not classified as a reactivity hazard.         |
| Chemical stability                 | : | Stable under normal conditions.                |
| Possibility of hazardous reactions | : | Can react with strong oxidizing agents.        |
| Conditions to avoid                | : | None known.                                    |
| Incompatible materials             | : | Oxidizing agents                               |
| Hazardous decomposition products   | : | No hazardous decomposition products are known. |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

**Distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg



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Remarks: Based on data from similar materials

**Graphite:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 423  
 Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403

**Dolomite:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 420  
 Assessment: The substance or mixture has no acute oral toxicity  
 Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: The substance or mixture has no acute inhalation toxicity  
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: The substance or mixture has no acute dermal toxicity  
 Remarks: Based on data from similar materials

**Dilithium azelate:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
 Method: OECD Test Guideline 420  
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Remarks: Based on data from similar materials

**Quartz:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

**Lubricating oils (petroleum), hydrotreated spent:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 4,480 mg/kg

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Based on data from similar materials

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 3.08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Distillates (petroleum), hydrotreated heavy paraffinic:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Talc:**

Species : Rabbit  
Result : No skin irritation

**Graphite:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Dolomite:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

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**Dilithium azelate:**

|         |                                        |
|---------|----------------------------------------|
| Species | : reconstructed human epidermis (RhE)  |
| Method  | : OECD Test Guideline 439              |
| Remarks | : Based on data from similar materials |

|        |                      |
|--------|----------------------|
| Result | : No skin irritation |
|--------|----------------------|

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 404 |
| Result  | : Skin irritation         |

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Remarks | : Based on data from similar materials |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Method  | : OECD Test Guideline 405              |
| Remarks | : Based on data from similar materials |

**Talc:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

**Graphite:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Result  | : No eye irritation       |
| Method  | : OECD Test Guideline 405 |

**Dolomite:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Method  | : OECD Test Guideline 405              |
| Remarks | : Based on data from similar materials |

**Dilithium azelate:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Result  | : No eye irritation       |
| Method  | : OECD Test Guideline 405 |

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**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Result  | : No eye irritation       |
| Method  | : OECD Test Guideline 405 |

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|                    |                                        |
|--------------------|----------------------------------------|
| Test Type          | : Buehler Test                         |
| Routes of exposure | : Skin contact                         |
| Species            | : Guinea pig                           |
| Result             | : negative                             |
| Remarks            | : Based on data from similar materials |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|                    |                                        |
|--------------------|----------------------------------------|
| Test Type          | : Buehler Test                         |
| Routes of exposure | : Skin contact                         |
| Species            | : Guinea pig                           |
| Method             | : OECD Test Guideline 406              |
| Result             | : negative                             |
| Remarks            | : Based on data from similar materials |

**Talc:**

|                    |                |
|--------------------|----------------|
| Routes of exposure | : Skin contact |
| Species            | : Humans       |
| Result             | : negative     |

**Graphite:**

|                    |                                 |
|--------------------|---------------------------------|
| Test Type          | : Local lymph node assay (LLNA) |
| Routes of exposure | : Skin contact                  |
| Species            | : Mouse                         |
| Result             | : negative                      |

**Dolomite:**

|                    |                                        |
|--------------------|----------------------------------------|
| Test Type          | : Local lymph node assay (LLNA)        |
| Routes of exposure | : Skin contact                         |
| Species            | : Mouse                                |
| Method             | : OECD Test Guideline 429              |
| Result             | : negative                             |
| Remarks            | : Based on data from similar materials |

**Dilithium azelate:**

|           |                                 |
|-----------|---------------------------------|
| Test Type | : Local lymph node assay (LLNA) |
|-----------|---------------------------------|

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|                    |                                        |
|--------------------|----------------------------------------|
| Routes of exposure | : Skin contact                         |
| Species            | : Mouse                                |
| Method             | : OECD Test Guideline 429              |
| Result             | : negative                             |
| Remarks            | : Based on data from similar materials |

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

|                    |                           |
|--------------------|---------------------------|
| Test Type          | : Buehler Test            |
| Routes of exposure | : Skin contact            |
| Species            | : Guinea pig              |
| Method             | : OECD Test Guideline 406 |
| Result             | : positive                |

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Assessment | : Probability or evidence of high skin sensitization rate in humans |
|------------|---------------------------------------------------------------------|

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|                       |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative                                                                                                                                                |
| Genotoxicity in vivo  | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Method: OECD Test Guideline 474<br>Result: negative<br>Remarks: Based on data from similar materials |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|                       |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative                                                                                                                                                |
| Genotoxicity in vivo  | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Method: OECD Test Guideline 474<br>Result: negative<br>Remarks: Based on data from similar materials |

**Talc:**

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)<br>Result: negative |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|

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Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Species: Rat  
Application Route: Ingestion  
Result: negative

**Graphite:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

**Dolomite:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

**Dilithium azelate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

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Remarks: Based on data from similar materials

**Carcinogenicity**

Not classified based on available information.

**Product:**

Carcinogenicity - Assessment : Petroleum distillates have been classified as not carcinogenic based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

**Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|                   |                           |
|-------------------|---------------------------|
| Species           | : Mouse                   |
| Application Route | : Skin contact            |
| Exposure time     | : 78 weeks                |
| Method            | : OECD Test Guideline 451 |
| Result            | : negative                |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Mouse                                |
| Application Route | : Skin contact                         |
| Exposure time     | : 78 weeks                             |
| Method            | : OECD Test Guideline 451              |
| Result            | : negative                             |
| Remarks           | : Based on data from similar materials |

**Talc:**

|                   |                               |
|-------------------|-------------------------------|
| Species           | : Mouse                       |
| Application Route | : inhalation (dust/mist/fume) |
| Exposure time     | : 2 Years                     |
| Result            | : negative                    |

**Quartz:**

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Species           | : Humans                                                                                                                |
| Application Route | : inhalation (dust/mist/fume)                                                                                           |
| Result            | : positive                                                                                                              |
| Remarks           | : These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard. |

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies (inhalation)

|             |                                 |            |
|-------------|---------------------------------|------------|
| <b>IARC</b> | Group 1: Carcinogenic to humans |            |
|             | Quartz                          | 14808-60-7 |
|             | (Silica dust, crystalline)      |            |

|             |                                        |            |
|-------------|----------------------------------------|------------|
| <b>OSHA</b> | OSHA specifically regulated carcinogen |            |
|             | Quartz                                 | 14808-60-7 |
|             | (crystalline silica)                   |            |

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|                                                                                   |                                                                                   |            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| <div style="border-left: 3px double black; padding-left: 5px;"> <b>NTP</b> </div> | Known to be human carcinogen<br>Quartz<br>(Silica, Crystalline (Respirable Size)) | 14808-60-7 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

**Reproductive toxicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated heavy paraffinic:**

|                                                                                                                       |                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fertility         </div>         | : Test Type: Reproduction/Developmental toxicity screening test<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials             |
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fetal development         </div> | : Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: Skin contact<br>Method: OECD Test Guideline 414<br>Result: negative<br>Remarks: Based on data from similar materials |

**Talc:**

|                                                                                                                       |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fetal development         </div> | : Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

**Graphite:**

|                                                                                                                       |                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fertility         </div>         | : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 422<br>Result: negative |
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fetal development         </div> | : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 422<br>Result: negative |

**Dolomite:**

|                                                                                                               |                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="border-left: 3px double black; padding-left: 5px;">           Effects on fertility         </div> | : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 422<br>Result: negative |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 422  
 Result: negative  
 Remarks: Based on data from similar materials

**Dilithium azelate:**

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
 Species: Rat  
 Application Route: Skin contact  
 Result: negative  
 Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Reproduction/Developmental toxicity screening test  
 Species: Rat  
 Application Route: Skin contact  
 Result: negative  
 Remarks: Based on data from similar materials

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 422  
 Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 422  
 Result: negative

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Components:****Quartz:**

Routes of exposure : inhalation (dust/mist/fume)  
 Target Organs : Lungs  
 Assessment : Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

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**Repeated dose toxicity****Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| NOAEL             | : > 0.98 mg/l                          |
| Application Route | : inhalation (dust/mist/fume)          |
| Exposure time     | : 28 Days                              |
| Remarks           | : Based on data from similar materials |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rabbit                               |
| NOAEL             | : 1,000 mg/kg                          |
| Application Route | : Skin contact                         |
| Exposure time     | : 4 Weeks                              |
| Method            | : OECD Test Guideline 410              |
| Remarks           | : Based on data from similar materials |

|                   |                               |
|-------------------|-------------------------------|
| Species           | : Rat                         |
| NOAEL             | : > 980 mg/m <sup>3</sup>     |
| Application Route | : inhalation (dust/mist/fume) |
| Exposure time     | : 4 Weeks                     |

**Dolomite:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Mouse                                |
| NOAEL             | : 1,300 mg/kg                          |
| Application Route | : Ingestion                            |
| Exposure time     | : 28 Days                              |
| Remarks           | : Based on data from similar materials |

**Dilithium azelate:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| NOAEL             | : 1,089.75 mg/kg                       |
| Application Route | : Skin contact                         |
| Exposure time     | : 28 Days                              |
| Remarks           | : Based on data from similar materials |

**Quartz:**

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Species           | : Humans                                                                                                                |
| LOAEL             | : 0.053 mg/m <sup>3</sup>                                                                                               |
| Application Route | : inhalation (dust/mist/fume)                                                                                           |
| Remarks           | : These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard. |

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

|                   |             |
|-------------------|-------------|
| Species           | : Rat       |
| NOAEL             | : 330 mg/kg |
| Application Route | : Ingestion |
| Exposure time     | : 54 Days   |

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Method : OECD Test Guideline 422

**Aspiration toxicity**

Not classified based on available information.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

|                                                                        |                                                                                                                                                                               |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials          |
| Toxicity to daphnia and other aquatic invertebrates                    | : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Remarks: Based on data from similar materials                                                    |
| Toxicity to algae/aquatic plants                                       | : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 10 mg/l<br>Exposure time: 21 d<br>Remarks: Based on data from similar materials                                                          |
| Toxicity to microorganisms                                             | : NOEC: > 1.93 mg/l<br>Exposure time: 10 min<br>Remarks: Based on data from similar materials                                                                                 |

**Distillates (petroleum), hydrotreated heavy paraffinic:**

|                                                     |                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials          |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials                 |
| Toxicity to algae/aquatic plants                    | : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other                       | : NOEC (Daphnia magna (Water flea)): 10 mg/l                                                                                                                                  |

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aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d  
 Method: OECD Test Guideline 211  
 Remarks: Based on data from similar materials

Toxicity to microorganisms

: NOEC: > 1.93 mg/l  
 Exposure time: 10 min  
 Method: DIN 38 412 Part 8  
 Remarks: Based on data from similar materials

**Talc:**

Toxicity to fish

: LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l  
 Exposure time: 24 h

**Graphite:**

Toxicity to fish

: LL50 (Danio rerio (zebra fish)): > 100 mg/l  
 Exposure time: 96 h  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
 Exposure time: 72 h  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
 Exposure time: 72 h  
 Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 201

Toxicity to microorganisms

: EC50: > 1,012.5 mg/l  
 Exposure time: 3 h  
 Method: OECD Test Guideline 209

**Dolomite:**

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 16.6 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203  
 Remarks: No toxicity at the limit of solubility.  
 Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 16.6 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 Remarks: No toxicity at the limit of solubility.  
 Based on data from similar materials

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Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 14 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

**Dilithium azelate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

**Quartz:****Ecotoxicology Assessment**

Acute aquatic toxicity : No toxicity at the limit of solubility.

Chronic aquatic toxicity : No toxicity at the limit of solubility.

**Lubricating oils (petroleum), hydrotreated spent:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 1,000 mg/l  
Exposure time: 21 d  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.02 mg/l  
Exposure time: 21 d

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ic toxicity)

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

**Ecotoxicology Assessment**

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

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 45 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : LL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 209

**Persistence and degradability****Components:****Distillates (petroleum), hydrotreated heavy naphthenic:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**Dilithium azelate:**

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**Biodegradability** : Result: Readily biodegradable.  
Biodegradation: 83 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

**Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony:**

**Biodegradability** : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

**Biodegradability** : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Bioaccumulative potential****Components:****Dilithium azelate:**

Partition coefficient: n-octanol/water : log Pow: -3.53

**2,5-Bis(octyldithio)-1,3,4-thiadiazole:**

Partition coefficient: n-octanol/water : log Pow: > 6.5  
Method: OECD Test Guideline 117

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION****International Regulations**

UNRTDG

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Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

|| This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

|| This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                                                       |            |              |
|-------------------------------------------------------|------------|--------------|
| Tris[bis(2-ethylhex-yl)dithiocarbamate-S,S'] antimony | 15991-76-1 | >= 1 - < 5 % |
|-------------------------------------------------------|------------|--------------|

|                                   |            |                |
|-----------------------------------|------------|----------------|
| Antimony, dialkyl dithiocarbamate | 15890-25-2 | >= 0.1 - < 1 % |
|-----------------------------------|------------|----------------|

**US State Regulations****Pennsylvania Right To Know**

|                                                               |            |
|---------------------------------------------------------------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic        | 64742-52-5 |
| Distillates (petroleum), hydrotreated heavy paraffinic        | 64742-54-7 |
| Talc                                                          | 14807-96-6 |
| Graphite                                                      | 7782-42-5  |
| Dolomite                                                      | 16389-88-1 |
| Hydroxystearate sebacate lithium complexes                    | 68815-49-6 |
| Dilithium azelate                                             | 38900-29-7 |
| Quartz                                                        | 14808-60-7 |
| Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony          | 15991-76-1 |
| Antimony, dialkyl dithiocarbamate                             | 15890-25-2 |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 68649-42-3 |



# SAFETY DATA SHEET



## GGT-RSC HT

|         |                |              |                                 |
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### California Prop. 65

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

### California List of Hazardous Substances

|                                                        |            |
|--------------------------------------------------------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 |
| Talc                                                   | 14807-96-6 |
| Graphite                                               | 7782-42-5  |
| Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony   | 15991-76-1 |

### California Permissible Exposure Limits for Chemical Contaminants

|                                                        |            |
|--------------------------------------------------------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 |
| Talc                                                   | 14807-96-6 |
| Graphite                                               | 7782-42-5  |
| Quartz                                                 | 14808-60-7 |
| Tris[bis(2-ethylhexyl)dithiocarbamate-S,S'] antimony   | 15991-76-1 |

### California Regulated Carcinogens

|        |            |
|--------|------------|
| Quartz | 14808-60-7 |
|--------|------------|

### The ingredients of this product are reported in the following inventories:

|      |                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| DSL  | : All components of this product are on the Canadian DSL                                                                                |
| TSCA | : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption. |
| AICS | : All ingredients listed or exempt.                                                                                                     |

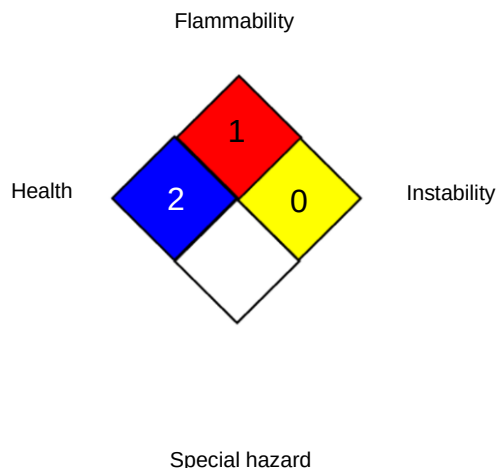
## SECTION 16. OTHER INFORMATION

### Further information

## GGT-RSC HT

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## NFPA 704:



## HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 2 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

## Full text of other abbreviations

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)                                                   |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA CARC       | : OSHA Specifically Regulated Chemicals/Carcinogens                                         |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| OSHA Z-3        | : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts                        |
| ACGIH / TWA     | : 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST  | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday    |
| OSHA CARC / PEL | : Permissible exposure limit (PEL)                                                          |
| OSHA Z-1 / TWA  | : 8-hour time weighted average                                                              |
| OSHA Z-3 / TWA  | : 8-hour time weighted average                                                              |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre-

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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 11/03/2020

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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