



MATERIAL SAFETY DATA SHEET

according to Regulation (EC) 1907/2006 - REACH

1. Identification of the substance/mixture and of the company/undertaking	
<p>1.1 Product identifier:</p> <p>1.2 Relevant identified uses of the substance or mixture: Uses advised against:</p> <p>1.3 Details of the supplier of the safety data sheet:</p> <p style="text-align: center;">Reference to safety data sheet:</p> <p>1.4 Emergency telephone number:</p>	<p>TONELLO ITEM 2880001</p> <p>Lubricant grease All except above indicated</p> <p>Nils S.p.A. Via Stazione, 30 39014 Postal (BZ)</p> <p>Tel. +39 0473 29 24 00 e-mail: nils@nils.eu Fax: +39 0473 29 12 44 www.nils.eu Tel +39 0473 292400 schedasicurezza@nils.it</p> <p>Nils S.p.A.:+39 0473 29 24 00 (only available during office hours) Niguarda Milano Hospital Poison Centre: +39 02 66101029</p>
2. Hazards identification	
<p>2.1 Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]:</p> <p>2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] : Hazard statements H: Precautionary statements P:</p> <p>2.3 Other hazards:</p>	<p>Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.</p> <p>H412: Harmful to aquatic life with long lasting effects. P273: Avoid release to the environment.</p> <p>This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.</p>



3. Composition/information on ingredients

3.2 Mixtures

Hazardous components:

Nr. CE	Nr. CAS	Nr. REACH	Description	%	Class. 1272/08
224-235-5	4259-15-8	01-2119493635-27	Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate)	1-<10	Eye Dam. 1 ; H318 Aquatic Chronic 2 ; H411
204-881-4	128-37-0	01-2119555270-46	2,6-Di-tert-Butyl-p-cresol	0-<1	Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information:

Highly refined mineral oil (IP 346 DMSO extract < 3%).
Complete list of H hazard statements is indicated in point 16 of this MSDS.

4. First aid measures

4.1 Description of first aid measures

-After inhalation:

-After skin contact:

-After eye contact:

-After ingestion:

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. In the event of cardiac arrest immediately perform cardiopulmonary resuscitation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. When in doubt or if symptoms are observed, get medical advice.

After contact with skin, first remove product with a dry cloth and then wash the skin with plenty of water.

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. Call a physician immediately

Rinse mouth thoroughly with water. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician immediately

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

The following symptoms may occur: Respiratory complaints , Headache , Dizziness , Nausea . Symptoms can occur only after several hours.

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

None

5. Firefighting measures

5.1 Extinguishing media Suitable extinguishing media:

Unsuitable extinguishing media:

Foam , Extinguishing powder , Carbon dioxide (CO₂) , Sand .
Co-ordinate fire-fighting measures to the fire surroundings.

Full water jet (use water only to cool the around surfaces)

5.2 Special hazards arising from the substance or mixture:

Carbon dioxide (CO₂) , Nitrogen oxides (NO_x) , Sulphur oxides , Carbon monoxide , Aliphatic and aromatic pyrolysis products , Phosphorus oxides

5.3 Advice for firefighters:

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus



<p>5.4 Additional information:</p>	<p>Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.</p>
<p>6. Accidental release measures</p>	
<p>6.1 Personal precautions, protective equipment and emergency procedures:</p> <p>6.2 Environmental precautions:</p> <p>6.3 Methods and material for containment and cleaning up:</p> <p>6.4 Reference to other sections:</p>	<p>Avoid contact with skin, eyes and clothes. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work</p> <p>Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.</p> <p>Take up with oil-absorbing compound. Treat the recovered material as prescribed in the section on waste disposal. Never return spills in original containers for re-use. Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it.</p> <p>Wear personal protection equipment (refer to section 8). Disposal: see section 13</p>
<p>7. Handling and storage</p>	
<p>7.1 Precautions for safe handling:</p> <p>Information about protection against explosions and fires:</p> <p>7.2 Conditions for safe storage, including any incompatibilities:</p> <p>7.3 Specific end use(s):</p>	<p>No hazardous reaction when handled and stored according to provisions. (Health hazards : None) . Avoid contact with skin, eyes and clothes.</p> <p>Do not smoke, avoid contact with ignition sources</p> <p>Floors should be impervious, resistant to liquids and easy to clean. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Shafts and sewers must be protected from entry of the product. Keep/Store only in original container. Protect containers against damage. Ensure adequate ventilation of the storage area. Do not store at temperatures below : 0 °C . Recommended storage temperature : 5 °C - 40 °C . Protect against : Protect against direct sunlight. Keep away from heat.</p> <p>No data available</p>



8. Exposure controls/personal protection

<p>8.1 Control parameters: 8.2 Exposure controls Personal protective equipment:</p> <p>-General protective and hygiene measures:</p> <p>-Respiratory protection:</p> <p>-Hand protection:</p> <p>-Eye protection:</p> <p>-Body protection:</p>	<p>none</p> <p>See protective measures under point 7 and 8. General health and safety measures No special measures are necessary.</p> <p>Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.</p> <p>No special measures are necessary.</p> <p>Tested protective gloves must be worn Breakthrough time (maximum wearing time) : 4 hours (NBR (Nitrile rubber) , Thickness of the glove material : 0,4 mm) . See information supplied by the manufacturer. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Unsuitable material : Butyl caoutchouc (butyl rubber) , NR (natural rubber, natural latex) , CR (polychloroprene, chloroprene rubber) Additional eye protection measures Wear eye/face protection. Protective work clothing</p>
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9. Physical and chemical properties

<p>Form: Colour: Odour: Odour treshold:</p> <p>Flash point: Density at 20°C: Solubility / miscibility in water: Viscosity at 20°C: pH at 23°C and concentr. 50 g/l: Danger of explosion: Melting point/melting range (1013 hPa): Boiling temperature/boiling range (1013 hPa): Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapour pressure: Vapour density: Partition coefficient n-octanol/ water: Autoignition temperature: Decomposition temperature: Oxidising properties:</p>	<p>Pasty Orange Characteristic Not determined</p> <table border="1"> <thead> <tr> <th><i>Value</i></th> <th><i>Unit</i></th> <th><i>Method</i></th> </tr> </thead> <tbody> <tr> <td>>200</td> <td>°C</td> <td></td> </tr> <tr> <td>ca 0.93</td> <td>g/cm³</td> <td>DIN 51757</td> </tr> <tr> <td>Not miscible or difficult to mix</td> <td></td> <td></td> </tr> <tr> <td>Not applicable</td> <td></td> <td></td> </tr> <tr> <td>Not applicable</td> <td></td> <td>DIN 51369</td> </tr> <tr> <td>No explosive hazard</td> <td></td> <td></td> </tr> <tr> <td>>150</td> <td>°C</td> <td></td> </tr> <tr> <td>>250</td> <td>°C</td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>Not applicable</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> <tr> <td>No data available</td> <td></td> <td></td> </tr> </tbody> </table>	<i>Value</i>	<i>Unit</i>	<i>Method</i>	>200	°C		ca 0.93	g/cm ³	DIN 51757	Not miscible or difficult to mix			Not applicable			Not applicable		DIN 51369	No explosive hazard			>150	°C		>250	°C		No data available			Not applicable			No data available			No data available			No data available			No data available			No data available			No data available			No data available			No data available		
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10. Stability and reactivity	
10.1 Reactivity:	This material is considered to be non-reactive under normal use conditions.
10.2 Chemical stability:	The product is chemically stable under recommended conditions of storage, use and temperature.
10.3 Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
10.4 Conditions to avoid	In case of exceeding the storage temperature: Danger of bursting container.
10.5 Incompatible materials	Reaction with oxidizing agents possible. Acid
10.6 Hazardous decomposition products	Does not decompose when used for intended uses. Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products : Carbon monoxide , Carbon dioxide. , aldehydes. , Ketone , Sulphur oxides , Nitrogen oxides (NOx) , Phosphorus oxides.
11. Toxicological information	
11.1 Information on toxicological effects	
Acute effects	
Acute oral toxicity	
Parameter : LD50 (Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate) ; CAS No. : 4259-15-8)	
Exposure route : Oral Species : Rat Effective dose : 3100 mg/kg	
Parameter : LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0) Exposure route : Oral	
Species : Rat Effective dose : 890 - 2930 mg/kg	
Parameter : LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0) Exposure route : Oral	
Species : Mouse Effective dose : 1040 mg/kg	
Based on available data, the classification criteria are not met.	
Acute dermal toxicity	
Parameter : LD50 (Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate) ; CAS No. : 4259-15-8)	
Exposure route : Dermal Species : Rabbit Effective dose : > 5000 mg/kg	
Parameter : LD50 (2,6-Di-tert-Butyl-p-cresol ; CAS No. : 128-37-0) Exposure route : Dermal	
Species : Rabbit Effective dose : > 2000 mg/kg	
Based on available data, the classification criteria are not met.	
Acute inhalation toxicity	
Based on available data, the classification criteria are not met.	
Irritant and corrosive effects	
Primary irritation to the skin	
Based on available data, the classification criteria are not met.	
Irritation to eyes	
Parameter : Irritation to eyes (Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate) ; CAS No. : 4259-15-8) Species : Rabbit Effective dose : >= 50 % Exposure time : 72 h	
Based on available data, the classification criteria are not met.	
Irritation to respiratory tract	
Based on available data, the classification criteria are not met.	



<p>Sensitisation In case of skin contact Based on available data, the classification criteria are not met. In case of inhalation Based on available data, the classification criteria are not met. Repeated dose toxicity (subacute, subchronic, chronic) Subacute oral toxicity Parameter : NOAEL(C) (Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate) ; CAS No. : 4259-15-8) Exposure route : Oral Species : Rat Effective dose : 125 mg/kg Exposure time : 28 days</p> <p>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.</p>	
11.2	<p>Symptoms related to the physical, chemical and toxicological characteristics In case of ingestion No known symptoms to date. In case of skin contact No known symptoms to date. In case of inhalation No known symptoms to date. In case of eye contact No known symptoms to date.</p>
12. Ecological information	
12.1	<p>Toxicity: harmless to aquatic organisms up to the tested concentration Aquatic toxicity Acute (short-term) fish toxicity Parameter : LC50 Species : Brachydanio rerio (zebra-fish) Effective dose : > 100 mg/l Exposure time : 96 h Parameter : EC50 Species : Daphnia magna (Big water flea) Effective dose : > 100 mg/l Exposure time : 48 h Acute (short-term) algae toxicity Parameter : ErC50 Species : Chronic (long-term) algae toxicity Effective dose : > 100 mg/l Exposure time : 96 h Parameter : EbC50 Species : Acute (short-term) algae toxicity Effective dose : > 100 mg/l Exposure time : 96 h</p>
12.2	<p>Persistence and degradability: There are no data available on the mixture itself. Biodegradation Parameter : Biodegradation (Zinc-bis[0,0-bis(2-ethylhexyl)]bis(dithiophosphate) ; CAS No. : 4259-15-8) Inoculum : Biodegradation Effective dose : < 5 % Exposure time : 27 days</p>
12.3	<p>Bioaccumulative potential: There are no data available on the mixture itself.</p>
12.4	<p>Mobility in soil: There are no data available on the mixture itself.</p>
12.5	<p>Results of PBT and vPvB assessment: There are no data available on the mixture itself.</p>
12.6	<p>Other adverse effects: Do not allow to enter into surface water or drains.</p>



13. Disposal considerations	
<p>13.1 Waste treatment methods Product/Packaging disposal The waste is to be kept separate from other types of waste until its recycling. Recycle according to official regulations. Waste for recycling is to be classified and labelled. Waste codes/waste designations according to EWC/AVV The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste code product List of proposed waste codes/waste designations in accordance with AAV : 120112 Waste code packaging List of proposed waste codes/waste designations in accordance with AAV : 150110 Properties of waste which render it hazardous Ecotoxic. Waste treatment options Appropriate disposal / Product Evidence for disposal must be provided. Send to a hazardous waste incinerator facility under observation of official regulations. Appropriate disposal / Package Contaminated packages must be completely emptied and can be re-used following proper cleaning. Non-contaminated packages must be recycled or disposed of. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Evidence for disposal must be provided. Other disposal recommendations Dispose according to legislation. Do not allow to enter into surface water or drains.</p>	
14. Transport information	
<p>14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: 14.5 Environmental hazards: 14.6 Special precautions for user: 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</p>	<p>No dangerous good in sense of these transport regulations. No dangerous good in sense of these transport regulations. No dangerous good in sense of these transport regulations. No dangerous good in sense of these transport regulations. No dangerous good in sense of these transport regulations. None No dangerous good in sense of these transport regulations.</p>
15. Regulatory information	
<p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: 15.2 Chemical safety assessment:</p>	<p>Reg. CE 1272/2008 (CLP) Reg. CE 790/2009 (1° ATP CLP) Reg. 1907/2006 (Reach) Reg. UE 453/2010 Reg. UE 830/2015 There are no data available on the product itself.</p>



16. Other information

This MSDS was prepared in accordance to Regulation 1907/2006/CE (Reach).

H hazard statements:

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Last revision: 28.09.2018