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Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools

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Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

**Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Oxides of phosphorus Burning produces obnoxious and toxic fumes

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

## 6. Accidental release measures

|   |   |
|---|---|
| <b>Personal Precautions</b>                 | Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.                        |
| <b>Environmental Precautions</b>            | Should not be released into the environment.  |
| <b>Methods for Containment and Clean Up</b> | Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |

## 7. Handling and storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. |
| <b>Storage</b>  | Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area. Keep under nitrogen. Keep container tightly closed in a dry and well-ventilated place.  |

## 8. Exposure controls / personal protection

|                                   |   |
|-----------------------------------|---|
| <b><u>Exposure Guidelines</u></b> | This product does not contain any known or suspected reproductive hazards |
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## 9. Physical and chemical properties

|                       |        |
|-----------------------|--------|
| <b>Physical State</b> | Liquid |
|-----------------------|--------|

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|   |  |
|---|--|
| <b>pH</b>                                     | No information available               |
| <b>Melting Point/Range</b>                    | -112 °C / -170 °F                      |
| <b>Boiling Point/Range</b>                    | 156 - 158 °C / 313 - 316 °F @ 760 mmHg |
| <b>Flash Point</b>                            | 44 °C / 111.2 °F                       |
| <b>Evaporation Rate</b>                       | No information available               |
| <b>Flammability (solid,gas)</b>               | Not applicable                         |
| <b>Flammability or explosive limits</b>       |  |
| <b>Upper</b>                                  | 42.5%                                  |
| <b>Lower</b>                                  | 3.75%                                  |
| <b>Vapor Pressure</b>                         | <6 hPa @ 20 °C                         |
| <b>Vapor Density</b>                          | No information available               |
| <b>Specific Gravity</b>                       | 0.965                                  |
| <b>Solubility</b>                             | Hydrolyses                             |
| <b>Partition coefficient; n-octanol/water</b> | No data available                      |
| <b>Autoignition Temperature</b>               | 250 °C / 482 °F                        |
| <b>Decomposition Temperature</b>              | 260 °C                                 |
| <b>Viscosity</b>                              | 1 mPa.s at 20 °C                       |
| <b>Molecular Formula</b>                      | C6 H15 O3 P                            |
| <b>Molecular Weight</b>                       | 166.16                                 |

## 10. Stability and reactivity

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**Component**  
Triethyl phosphite

**CAS-No**  
122-52-1

**IARC**

**NTP**

**ACGIH**

**OSHA**

**Mexico**

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**IMDG/IMO**

|                             |                    |
|-----------------------------|--------------------|
| <b>UN-No</b>                | UN2323             |
| <b>Proper Shipping Name</b> | TRIETHYL PHOSPHITE |
| <b>Hazard Class</b>         | 3                  |
| <b>Packing Group</b>        | III                |

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Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product contains the following DHS chemicals:

**Component**  
Triethyl phosphite

**DHS Chemical Facility Anti-Terrorism Standard**  
0 lb STQ

**Other International Regulations**

**Mexico - Grade**