MATERIAL SAFETY DATA SHEET

TETRYL

HAZARD RATING:  
Health - 3  Flammability - 3  Reactivity - 4  Special - High Explosive

Synonym(s): tetranirotomethylanilin; pyronite; tetralita

SECTION I - MANUFACTURE'S INFORMATION

Manufacturer/Supplier Name: Mil-Spec Industries Corp.
Address: 42 Herb Hill Road, Glen Cove, NY 11542 U.S.A.
Telephone Number: (516) 625-5787
Emergency Telephone Number: 1-800-255-3924, Int’l call: +01-813-248-0585
Date Prepared: 08/22/11

SECTION II - CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>%</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetryl</td>
<td>479-45-8</td>
<td>100</td>
<td>1.5 mg/m³</td>
<td>1.5 mg/m³</td>
<td>1.5 mg/m³ NIOSH TWA skin</td>
</tr>
<tr>
<td>(2,4,6-trinitrophenyl)methyltrimamine; tetranirotomethylanilin; pyronite; tetralita</td>
<td></td>
<td></td>
<td>skin</td>
<td></td>
<td>IDLH - 750 mg/m³</td>
</tr>
</tbody>
</table>

NOTE: Hazard Class 1, Division 1; SCG "D"

NOTE: Materials in this product are subject to the reporting requirements of SARA, Title III, Section 313 as follows: None

SECTION III - PHYSICAL AND CHEMICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>n/a</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.71</td>
</tr>
<tr>
<td>Melting Point</td>
<td>130°C</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg):</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor Density (Air = 1):</td>
<td>n/a</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1):</td>
<td>n/a</td>
</tr>
<tr>
<td>Solubility In Water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Appearance And Odor:</td>
<td>Light yellow, crystalline solid with no distinguishing odor</td>
</tr>
</tbody>
</table>
SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point: n/a
Flammable Limits: LEL n/a UEL n/a
Extinguishing Media: water deluge

Special Fire Fighting Procedures:
Do not attempt to fight fires involving high explosives. Isolate area and immediately evacuate all personnel from the area to a safe distance using as much protective cover as possible.

Unusual Fire And Explosion Hazards:
HIGH EXPLOSIVE!! Burning of large quantities of high explosives may transition from deflagration to detonation with extremely violent results.

SECTION V - REACTIVITY/COMPATIBILITY DATA

Stability:
Stable under normal conditions. Avoid subjecting to heat, sparks, impact, friction, and electrostatic discharge.

Incompatibility (materials to avoid):
Avoid reducing agents, alkalies, acids, oxidants, initiating explosives, and physical sensitizers such as glass, sand, and metal fragments.

Hazardous Decomposition Products:
During decomposition, emits carbon dioxide, carbon monoxide, and toxic oxides of nitrogen.

Hazardous Polymerization:
Will not occur

SECTION VI - HEALTH HAZARD DATA

Routes Of Entry:
Eye? Yes
Inhalation? Yes (dusting)
Skin? Yes (avoid skin contact)
Ingestion? Yes (improper personal hygiene practices)

Effects Of Over-Exposure:
Acute - Slight to serious effects
Chronic - Not fully known

Signs And Symptoms Of Exposure:
Toxic. Can cause allergic skin reaction, dermatitis, and eye irritation (swollen, conjunctiva irritated). Skin and hair exposed to tetryl may be stained a yellowish color. Excessive exposure may cause headache, nervousness, cough, chest pain, jaundice, nosebleed, lack of appetite, nausea, vomiting, abdominal cramps, and diarrhea.
Systemic poisoning may occur with the target organs being lungs, liver, and kidneys.

Medical Conditions Generally Aggravated By Exposure:
Personnel should be in generally good health. Baseline hematology and liver function tests should be performed by a physician.

Emergency First Aid Procedures:
Eye - Flush with water for 15 minutes. Remove contact lenses prior to flushing, if applicable. Get medical attention.
Inhalation - Remove to fresh air. Give oxygen if necessary. Get medical attention.
Skin - Wash with soap and warm water. Get medical attention for rash or irritation.
Ingestion - If conscious, drink large quantities of water and induce vomiting immediately. Contact a physician or Poison Control Center immediately.
Other - n/a

Carcinogenicity:
NTP? Not listed
IARC Monographs? Not listed
OSHA Regulated? Not listed
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Follow If Material Is Spilled Or Released:
Remove all sources of ignition. Avoid any and all situations which could initiate the material, such as friction, impact, heat, sparks, or electrostatic discharge. Wet down material with water. Sweep up spill with a soft bristle brush and a non-sparking pan or shovel. Place material in a properly labeled storage container and store in an approved storage magazine for further disposition.

Waste Disposal Method:
Dispose of in accordance with applicable local, state, and federal regulations.

Precautions To Be Taken In Handling And Storage:
Handle with care. Store only in authorized High Explosives magazine with compatible material and away from all sources of ignition and flammable materials. Do not store with Initiating (Primary) explosives.

Other Precautions:
Material should remain in original shipping container or equivalent for storage purposes.

SECTION VIII - PERSONAL PROTECTION INFORMATION

Respirator Protection (Specify Type):
NIOSH/MSHA respirator with cartridges for particulate matter is recommended when handling dry material in a dusty atmosphere.

Ventilation:
- Local Exhaust - Hoods for dusty operations are recommended.
- Mechanical (General) - General ventilation necessary.
- Special - Dust collection system required if hoods are utilized.
- Other - n/a

Protective Gloves:
Impervious gloves are recommended to avoid skin contact

Eye Protection:
Dust-tight goggles for dusty atmospheres otherwise safety glasses that meet or exceed ANSI Z87.1 (latest revision)

Other Protective Clothing Or Equipment:
Cotton clothing (including undergarments); cotton coveralls or lab coat; conductive-soled footwear. For dusty atmospheres, impervious coveralls with hoods, elastic wrist and ankles.

Work/Hygienic Practices:
Wash hands thoroughly after handling; daily clothing change; daily shower; no eating or drinking in exposed locations

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken:
CAUTION: High explosives are extremely dangerous. Only highly trained and qualified personnel should utilize this material. Explosives must be tested for compatibility with any materials which they contact. Clean up any spills of material immediately. Proper housekeeping techniques must be maintained to minimize the accumulation of explosive dust. Follow all safety regulations and precautions when handling, storing, or processing explosive material.

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