Mehmet KILIÇ

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Gönderme Tarihi: 30 Mart 2018 Cuma 11:40

Kime: MKE İkmal Dairesi

Konu: Ynt: 3.021 kg. Tetril'in FOB Doğu Kıyısı Limanı ABD'den Derince Limanına taşıtılması

işi.

Ekler: 912 - SDS-TETRYL.PDF

Önem: Yüksek

Sayın İlgili,

Kurumumuz ihtiyacı 3.021 kg. Tetril'in FOB Doğu Kıyısı Limanı ABD'den Derince Limanına taşıtılması işine ilişkin üretici firmadan alınan MSDS formu ektedir. Teklif verirken bu hususun dikkate alınmasını rica ederiz.

Zeynep TAŞTEMEL Ahmet KONUR
Dış Alım Şube Müdürü İkmal Dairesi Başkanı
Import Manager Director,

The Procurement Department

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MIL-SPEC INDUSTRIES CORP.

e-mail: info@mil-spec-industries.com http://www.mil-spec-industries.com 42 Herb Hill Road • Glen Cove, NY 11542 Tel: (516) 625-5787 • Fax: (516) 625-0988

Safety Data Sheet

| | | | | | | or | |
|--|--|--|--|--|--|----|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Product Identifier/Name: Tetryl

Product Use: Military or Industrial

Military or Industrial | Product Uses Advised Against: None

Manufacturer/Supplier:

Mil-Spec Industries Corp. 42 Herb Hill Road

Telephone Number: (516) 625-5787

DANGER

Emergency Number: 1-800-255-3924 (US/Canada)

+1-813-248-0585 (International)

Section 2: Hazard Identification

Glen Cove, NY 11542

GHS Classification: Explosives

Pictograms:











Hazard Statements:

Explosive; mass explosion hazard - H201 May intensify fire, oxidizer - H272 Toxic if swallowed - H301 Causes skin irritation - H315 Causes eye irritation - H319

May cause respiratory irritation - H335

Precautionary Statements:

Keep away from heat/sparks/open flames. No smoking - P201

Do not subject to grinding/shock/friction - P250

Signal Word:

Avoid breathing dust - P261

Contaminated work clothing should not be allowed of the workplace - P272

In case of inadequate ventilation wear respiratory protection. - P285

Wash thoroughly after handling - P280

Use personal protective equipment (PPE) as required - P281

Response Precautionary Statements:

Explosion risk in case of fire - P372

DO NOT fight fire when reaches explosives - P373

Evacuate area - P380

Storage Precautionary Statements:

Keep container tightly closed - P233

Store in accordance with local/regional/national/international

regulations - P401

Disposal Precautionary Statements:

Dispose of contents/containers in accordance with local/regional/national/international regulations - P501

Section 3: Composition/Information on Ingredients

| Chemical Name | Trade, Common Names | CAS Number | EC Number | Composition |
|---------------|---|------------|-----------|-------------|
| Tetryl | nitramine; tetralite; tetril; 2,4,6- trinitrophenylmethylnitramine | 479-45-8 | 207-531-9 | 100% |

Section 4: First-Aid Measures

Inhalation: Avoid inhaling dusts or fumes. Remove to fresh air. Give oxygen if possible. Get medical attention.

Skin: Avoid skin contact. If on skin, wash with soap then rinse thoroughly.

Eyes: If in eyes, flush eyes with water for at least 15 minutes. If eye irritation persists, get medical attention.

Ingestion: Get medical attention.

| Routes & Effects of Exposure Acute Symptoms | | | | | Chror | nic Symptoms | | |
|--|--|--|---|---|--|--|--|--|
| Inhalation/Ingestion: | (vague feelir lassitude (we | ugh, coryza; irritabi ag of discomfort), ho eakness, exhaustior ay be toxic if swallo | May cause insomnia and anemia. May damage liver, kidneys, respiratory and central nervous systems. | | | - | | |
| Skin: sensitization (skin redness cheeks, and r | | llergic skin reaction dermatitis, itching, s); edema on nasal neck. | Unknown | | | | | |
| l Eves | | ye irritation; keratit on of the cornea) | tis | | (| Jnknown | | |
| Section 5: Fire-Fighting | Measures | | | | | | | |
| Extinguishing Media: | | luge preferred | Unsuitab | le Extingui | shing Media: | N/A | | |
| Special Hazards from th | e Chemicals: | Explosion : | risk in case of | fire | | | | |
| Special Protective Eq Precautions for Fire | | If explosive is burning, evacuate immediately and DO NOT fight the fire. Any firefighting done to non-explosives should be done remotely; use information s quantity of explosives and DOT Emergency Response Guide (ERG) to determine safe distance. Anticipate flying and falling fragments following an explosion; util and other means, such as terrain, to shield the body. | | | | | on such as nine the | |
| Section 6: Accidental Re | elease Measu | res | | | | | | |
| Personal Precautions, Protective Equipment, and Emergency Procedures: | | | | Eliminate ignition sources. Do not walk through spilled material. Remove nonessential people from the scene. Use PPE and nonsparking tools as needed. | | | | |
| Environmental Precaut | ions: A | void run off to wate | | | | terial. | | |
| Methods & Materials f | or Containme | nt and Clean-Line if | | | | | | |
| hand tools, such as a so extreme caution while s metal contact, impact v wetted with water to de | ft bristle brus sweeping up to vith sharp obje | h and rubber or pla etryl because of the ects and frictionall | stic collection danger of ig | n tool (dust nition fron | t pan, shovel, _I n shock. Avoid | pinching material, n | etc.) Use netal to | |
| hand tools, such as a so extreme caution while s metal contact, impact v | ft bristle brust sweeping up to vith sharp obje esensitize prio | h and rubber or pla etryl because of the ects and frictionall | stic collection danger of ig | n tool (dust nition fron | t pan, shovel, _I n shock. Avoid | piece of cardboard, o pinching material, n | etc.) Use netal to | |
| hand tools, such as a so extreme caution while s metal contact, impact v wetted with water to do | ft bristle brusi sweeping up to vith sharp obje esensitize prio Storage | h and rubber or pla etryl because of the ects and frictionall or to clean up. Keep away from h | stic collection e danger of ig I of which cou leat and ignit cure, cutting, | n tool (dust nition fron uld initiate ion source | t pan, shovel, pan, shock. Avoid the explosive. | piece of cardboard, o pinching material, n | etc.) Use netal to nay be arge or it's | |
| hand tools, such as a so extreme caution while s metal contact, impact wetted with water to de Section 7: Handling & S | oft bristle brust weeping up to with sharp objective prior storage andling: | h and rubber or pla etryl because of the ects and frictionall or to clean up. Keep away from h container to press could be ignition s | e danger of ig danger of ig dof which cou neat and ignit dure, cutting, dources. ted place. Ke | n tool (dust nition fron uld initiate ion source welding, d | t pan, shovel, panshock. Avoid the explosive. S. Do not smol rilling, heat, fl | piece of cardboard, of pinching material, no Explosive material no Explosive material no expose characters. | etc.) Use netal to may be arge or it's cies that | |
| hand tools, such as a so extreme caution while s metal contact, impact wetted with water to do Section 7: Handling & S | ft bristle bruslsweeping up to with sharp objects prior of the bristle | h and rubber or pla etryl because of the ects and frictionall or to clean up. Keep away from h container to press could be ignition s | e danger of ig danger of ig dof which cou neat and ignit dure, cutting, sources. ted place. Ke and vibration | n tool (dust nition fron uld initiate ion source welding, d ep contain | t pan, shovel, panshock. Avoid the explosive. S. Do not smol rilling, heat, fl | piece of cardboard, of pinching material, no Explosive material response to the control of the c | etc.) Use netal to may be arge or it's cies that | |
| hand tools, such as a so extreme caution while sometal contact, impact wetted with water to do Section 7: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 5: Handling & Section 6: Handling & Section 6: Handling 8: Hand | oft bristle brust weeping up to with sharp objective esensitize prior storage andling: rage: | h and rubber or pla etryl because of the ects and frictionall or to clean up. Keep away from h container to press could be ignition s Store in a designal sensitive to shock Oxidizable materia | e danger of ig danger of ig dof which cou neat and ignit dure, cutting, sources. ted place. Ke and vibration | n tool (dust nition fron uld initiate ion source welding, d ep contain | t pan, shovel, panshock. Avoid the explosive. S. Do not smol rilling, heat, fl | piece of cardboard, of pinching material, no Explosive material response to the control of the c | etc.) Use netal to may be arge or it's cies that | |
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| hand tools, such as a so extreme caution while sometal contact, impact we wetted with water to do Section 7: Handling & Sections for Safe Handling & Section 8: Exposure Co | oft bristle brust weeping up to with sharp objective esensitize prior storage andling: rage: | h and rubber or platetryl because of the ects and frictionaller to clean up. Keep away from how container to pressould be ignition sensitive to shock Oxidizable materical Protection | e danger of ig danger of ig dof which cou neat and ignit sure, cutting, sources. ted place. Ke and vibration als, hydrazine | n tool (dust nition fron uld initiate ion source welding, d ep contain | t pan, shovel, panshock. Avoid the explosive. S. Do not smol rilling, heat, fluers closed who | piece of cardboard, of pinching material, no Explosive material response to the control of the c | etc.) Use netal to may be arge or it's cies that | |

| Exposure Times: | | | ninutes, without any escape impairing ount of exposure is acceptable above t | | r long term | | |
|---------------------------------|----------------------|---|---|--|--------------------------|--|--|
| Keys to Abbreviations | - | | | | | | |
| OSHA= Occupational Safety | / & Health Administ | ration | PEL= Permissible Exposure Limit | C= | : Ceiling | | |
| NIOSH= National Institute o | of Occupational Safe | ety & Health | TWA= Time-Weighted Average | | | | |
| ACGIH= American Conferer | | • | TLV-Threshold Limit Value | | | | |
| IDLH=Immediately Dangero | | | STEL=Short Term Exposure Limit | : | | | |
| Exposure Controls: | | | | | | | |
| Engineering Controls: | Use outdoors | or in ventilated are | eas to keep dust/fumes below exp | ocura limita | | | |
| Personal Protective E | | or in ventuated are | eas to keep dustylullies below exp | osure iiiiits | • | | |
| r cisonari rotective Et | · | ved respirator nece | ssary when handling. Allow ample | e time for va | pors to disperse | | |
| 1 | | | esignated Safety & Industrial Hygi | | | | |
| Eye | ANSI approv | ed Safety glasses an | d side shields or goggles are recor | nmended. | | | |
| Ears | Hearing prot | ection is recommen | ided at detonation time. | | | | |
| Hands | | | handling and cleaning up. | | | | |
| Body | | | to control static electricity, if han | dling explos | ive powder. | | |
| Personal Hygiene Me | | and wash work unit | at may touch the body or be ingest form separate from other clothing | | uniform daily. Store | | |
| Section 9: Physical & | Chemical Prope | rties | | | | | |
| Physical State: | Solid | | Vapor Pressure: | 1.2X10-7 m | nm Hg @ 25 °C | | |
| Color: | Colorless to ye | ellow crystalline | Vapor Density: | No data | | | |
| Odor: | Odorless | | Relative Humidity: | No data | | | |
| Odor Threshold: | No data | | Solubility: | 74 mg/L @ | 25 °C | | |
| pH Value: | No data | | Partition Coefficient: | No data | | | |
| Melting Point: | 131° C | | Specific Gravity: | 1.57 | | | |
| Boiling Point: | 187° C (will ex | (plode) | Autoignition Temp: | No data | | | |
| Flash Point: | Explodes | | Decomposition Temp: | 187° C (will | explode) | | |
| Evaporation Rate: | No data | | Explosive Limits: | Explosion caused by friction, | | | |
| Flammability: | Explosive | | Explosive Limits. | impact, sta | tic electricity, or heat | | |
| Section 10: Stability 8 | k Reactivity | | | | | | |
| Chemical Stability: | | | al storage and handling conditions | S. | | | |
| Possibility of Hazardo | us Reactions: | Explosion | | | | | |
| Conditions to Avoid: | 0 | Avoid friction, impact, shock, heat, electrostatic discharge. | | | | | |
| Incompatible Materia | | Oxidizable materials, hydrazine, trioxygen difluoride. | | | | | |
| Hazardous Decomposition Product | | Emits toxic oxides of nitrogen and carbon monoxide. | | | | | |
| Section 11: Toxicolog | | | | | | | |
| Routes & Symptoms | of Exposure - Re | efer to Section 4 – Fi | irst-Aid Measures | | | | |
| Target Organs: | Eyes, Skin, I | Respiratory System, | Central Nervous System, Liver, an | d Kidneys. | | | |
| Information on Toxic | cological Inform | ation | | | | | |
| Chemical Name | Te | sting Data | Carcinogenicity | | Mutagen/Teratogen | | |
| Tetryl | | | | nown carcinogen in animals, unknown effects in humans. | | | |

| Toxicity: | Tetryl is a potentially toxic substance, but does not exist naturally in the environment |
|--------------------------------|---|
| Persistence and Degradability: | Tetryl is not expected to remain in the air or the soil for very long amounts of time. The half-life of tetryl in the air is 13 days. Tetryl contaminated soil can be remediated through biodegradation. |
| Bioaccumulative Potential: | BCF=4; log Kow=1.64; These suggest that the potential for bioconcentration for aquatic organisms is low. |
| Mobility in Soil: | Tetryl is expected to be slightly mobile in the soil. |
| Other Adverse Effects: | No data found. |

Section 13 Disposal Considerations:

Follow all local, state, federal, and international regulations when disposing of the product and packaging. Cleaned up material (post-detonation) may be considered hazardous waste. Do not use original containers for other means, unless all explosive markings and labels have been removed.

Section 14: Transport Information:

| UN Number | UN Proper Shipping Name | Transport Hazard Class | Packing Group | Marine Pollutant | ERG Guide Number |
|--------------|-------------------------------|---------------------------|------------------|------------------|------------------|
| UN0208 | Trinitrophenylmethylnitramine | 1.1D | 11 | No | 112 |

Special Precautions:

Understand the hazards of transporting explosives. Follow DOT guidelines and review the Emergency Response Guide before driving. Never fight explosives fires. Following any accident, immediately notify First Responders of the cargo.

Section 15 Regulatory Information:

| Chemical | TSCA | CAA | RCRA | CERCLA/SARA |
|----------|------|-----|------|-------------|
| Tetryl | Yes | No | No | Yes |

Section 16 Other Information:

Date of Last Revision: 4/1/2016

CAUTION: High explosives are extremely dangerous. All explosives must be handled only by qualified personnel, who are experienced and highly trained in the use of and familiar with the hazards inherent in explosives. Tetryl must be handled with extreme caution. When explosives are detonated or destructively tested, all personnel must be protected from the effects of blast overpressure, fragments, and noise. All the post detonation fumes and dust to clear before entering. Follow all safety regulations and precautions when handling, storing, or using explosive material.

The information contained herein is believed to be accurate and represents the best information currently available. Data is based on information obtained through numerous regulatory and scientific agencies; said material may change over time. Product users are advised to confirm in advance of need that information is current, applicable, and suited to the circumstance of use. This document should be used to supplement the end users own information, safety procedures and training. Buyer and user assume any and all risk, responsibility, and liability for any and all injury (including death), loss, or damage arising from usage.