TETRAZENE (cas 109-27-3) MSDS

HILTI -- SAFETY BOOSTERS
MATERIAL SAFETY DATA SHEET
NSN: 137700N033106
Manufacturer's CAGE: 11239
Part No. Indicator: A
Part Number/Trade Name: SAFETY BOOSTERS

General Information

Company's Name: HILTI INC
Company's Street: 5400 SOUTH 122ND EAST AVE
Company's P. O. Box: 21148
Company's City: TULSA
Company's State: OK
Company's Country: US
Company's Zip Code: 74121
Company's Emerg Ph #: 918-252-6000
Company's Info Ph #: 918-252-6000
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 07FEB91
Safety Data Review Date: 28AUG95
MSDS Serial Number: BPNQH
Hazard Characteristic Code: E2

Ingredients/Identity Information

Proprietary: NO
Ingredient: LEAD STYPHNATE
Ingredient Sequence Number: 01
Percent: 1
NIOSH (RTECS) Number: 1006706LS
CAS Number: 15245-44-0
OSHA PEL: 0.05 MG/M3
ACGIH TLV: 0.15 MG/M3

Proprietary: NO
Ingredient: 1-TETRAZENE, 1-GUANYL-4-NITROSAMINO GUANYL-; (TETRACENE)
Ingredient Sequence Number: 02
Percent: 0.1
NIOSH (RTECS) Number: XF6900000
CAS Number: 109-27-3
OSHA PEL: NOT APPLICABLE
ACGIH TLV: NOT APPLICABLE

Proprietary: NO
Ingredient: BARIUM (II) NITRATE (1:2); (BARIUM NITRATE)
Ingredient Sequence Number: 03
Percent: 1
NIOSH (RTECS) Number: CQ9625000
CAS Number: 10022-31-8
OSHA PEL: 0.5 MQ(BA)/M3
ACGIH TLV: 0.5 MQ(BA)/M3

Proprietary: NO
Ingredient: NITROGLYCERIN (SARA III)
Ingredient Sequence Number: 04
Percent: 5-11  
NIOSH (RTECS) Number: QX2100000  
CAS Number: 55-63-0  
OSHA PEL: S,C, 0.2 MG/M3 STEL  
ACGIH TLV: S, 0.46 MG/M3; 9293

Proprietary: NO  
Ingredient: NITROCELLULOSE  
Ingredient Sequence Number: 05  
Percent: 7-1  
NIOSH (RTECS) Number: QW0970000  
CAS Number: 9004-70-0  
OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

Proprietary: NO  
Ingredient: BRASS  
Ingredient Sequence Number: 06  
Percent: 65-85  
NIOSH (RTECS) Number: 1003505B OSHA PEL: NOT APPLICABLE  
ACGIH TLV: NOT APPLICABLE

Physical/Chemical Characteristics

Appearance And Odor: BRASS CASING COLOR CODED ON STAR CRIMP  
Boiling Point: N/A  
Melting Point: N/A  
Vapor Pressure (MM Hg/70 F): N/A  
Vapor Density (Air=1): N/A  
Specific Gravity: N/A  
Evaporation Rate And Ref: NOT APPLICABLE  
Solubility In Water: NOT APPLICABLE  
pH: N/A

Fire and Explosion Hazard Data

Flash Point: NOT APPLICABLE  
Lower Explosive Limit: N/A  
Upper Explosive Limit: N/A  
Extinguishing Media: WATER.  
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL  
PROTECTIVE EQUIPMENT (FP N). FLOOD AREA WITH WATER OR KEEP CARTRIDGES COOL  
WITH WATER SPRAY.  
Unusual Fire And Expl Hazards: CARTRIDGES CAN EXPLODE IF EXPOSED TO  
TEMPERATURES ABOVE 200C.

Reactivity Data

Stability: YES  
Cond To Avoid (Stability): ACIDS, EXCESS HEAT, CRUSHING, AND ELECTRICAL  
CURRENTS.  
Materials To Avoid: STRONG ACIDS AND OXIDIZING MATERIALS.  
Hazardous Decomp Products: OXIDES OF NITROGEN, ACRID FUMES, AND LEAD.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50/LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry- Inhalation: YES  
Route Of Entry- Skin: YES  
Route Of Entry- Ingestion: YES  
Health Haz Acute And Chronic: NONE EXPECTED. POSSIBLE IRRITATION FROM  
FUMES AND GASES UNDER CERTAIN CONDITIONS SUCH AS EXCESSIVE FIRING WITH  
LITTLE AIR MOVEMENT. THE NATURE AND USE OF THIS PRODUCT, HOWEVER, SHOULD NOT POSE AN INCREASED RISK OF CANCER TO HUMANS.  
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: YES  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: INORGANIC LEAD COMPOUNDS: GROUP 2B (IARC).

Signs/Symptoms Of Overexp: EXCESSIVE EXPOSURE MIGHT CAUSE IRRITATION TO THE EYES, SKIN AND RESPIRATORY SYSTEM. ADVERSE HEALTH EFFECTS ARE NOT EXPECTED FROM LONG TERM EXPOSURE TO FUMES AND GASES, HOWEVER, GOOD PERSONAL HYGIENE PRACTICES ARE ESSENTIAL TO KEEP EXPOSURE TO A MINIMUM.

Med Cond Aggravated By Exp: NONE ANTICIPATED.

Emergency/First Aid Proc: EYE: IF IRRIT OCCURS, FLUSH W/PLENTY OF H2O FOR @ LST 15 MIN. CONSULT MD IF SYMPS PERSIST. SKIN: PRACT GOOD HYGIENE BY WASHING WSOAP & WATER AFTER USING & BEFORE MEALS. INHAL: MOVE TO FRESH AIR. GET ME ATTN IF SYMPS PERSIST. INGEST: GET IMMED MED ATTN. OTHER: SEEK PROMPT MED ATTN.

IF PHYSICAL INJURY OCCURS FROM PINS, RIVETS, SHRAPNEL, ETC. FOR BLEEDING WOUNDS, PLACE CLEAN MATL ON WOUND & APPLY (SUPP DATA).

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: NONE SPECIFIED BY MANUFACTURER.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: MISFIRES, BENT CARTRIDGES, ETC. SHLD BE STORED IN CNTNR OF H2O TO WHICH DETERGENT HAS BEEN ADDED AS "WETTING" AGENT. THE ONLY PROPER DISP METH IS TO INCIN IN SM AMTS IN BURNER SPECIFICALLY DESIGNED FO DESTROYING HAZ AMMUNITION. (SUPP DATA).

Precautions-Handling/Storing: STORE IN COOL DRY PLACE. DO NOT CRUSH/DROP. KEEP AWAY FROM EXCESS HEAT, ELEC CURRENT, STRONG ACIDS & OXIDIZERS. NFPA 495 REQS 15 FT (SUPP DATA).

Other Precautions: USE ONLY IN POWDER ACTUATED TOOLS DESIGNED TO HANDLE THESE BOOSTERS. EMPLOYEES MUST BE PROPERLY TRAINED AS PRESCRIBED BY APPLIC OSHA REGS 29 CFR 1910.243 (D)/1926.302 (E). CLEANING POWDER ACTUATED TOOLS CAN RSLT IN SOME EXPOS TO LEAD CMPNDS.

Control Measures

Respiratory Protection: NIOSH/MSHA PARTICULATE RESPIRATOR (E.G. 3M8710) WHERE AIR MOVEMENT IS INADEQUATE TO MAINTAIN EXPOSURE BELOW RECOMMENDED LEVELS.


Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).


Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING AND BEFORE MEALS OR SNACKS.

Suppl. Safety & Health Data: FIRST AID PROC: FIRM PRESSURE. ELEVATE THE DISPOSE OF IF AWW.FEDERAL, STATE AND LOCAL REGULATIONS (FP N). HNDLGD/STO PREC: SEPARATION (OR 1 HOUR FIRE WALL) FROM FLAMMABLE LIQUIDS, FLAMMABLE SOLIDS, AND OXIDIZERS.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Technical Review Date: 22JUL92
Label Status: G
Common Name: SAFETY BOOSTERS
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-Severe: X
Special Hazard Precautions: SMALL ARMS AMMUNITION. STORE IN A COOL DRY
PLACE. DO NOT CRUSH/DROP. KEEP AWAY FROM EXCESS HEAT, ELECTRICAL CURRENT, STRONG ACIDS AND OXIDIZERS. ACUTE: POSSIBLE IRRITATION FROM FUMES AND GASES UNDER CERTAIN CONDITIONS SUCH AS EXCESSIVE FIRING WITH LITTLE AIR MOVEMENT. CHRONIC: CONTAINS AN INORGANIC LEAD COMPOUND WHICH IS A SUSPECT CARCINOGEN.

ADVERSE HEALTH EFFECTS ARE NOT EXPECTED FROM LONG TERM EXPOSURE TO FUMES AND GASES, HOWEVER, GOOD PERSONAL HYGIENE PRACTICES ARE ESSENTIAL TO KEEP EXPOSURE TO A MINIMUM.

Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: HILTI INC
Label Street: 5400 SOUTH 122ND EAST AVE
Label P.O. Box: 21148
Label City: TULSA
Label State: OK
Label Zip Code: 74121
Label Country: US
Label Emergency Number: 918-252-6000