

HILTI INC -- SAFETY BOOSTER -- 1377-01-016-4612

===== Product Identification =====

Product ID:SAFETY BOOSTER

MSDS Date:02/07/1991

FSC:1377

NIIN:01-016-4612

MSDS Number: BWSTQ

=== Responsible Party ===

Company Name:HILTI INC

Address:5400 S 122ND E AVE

Box:21148

City:TULSA

State:OK

ZIP:74121

Country:US

Info Phone Num:918-252-6000

Emergency Phone Num:800-727-3427

CAGE:EO264

=== Contractor Identification ===

Company Name:HILTI INC

Address:5400 S 122ND E AVE

Box:21148

City:TULSA

State:OK

ZIP:74121

Country:US

Phone:918-252-6000/800--879-6000

CAGE:11239

Company Name:HILTI INC

Address:5400 S 122ND EAST AVE

Box:21148

City:TULSA

State:OK

ZIP:74121

Country:US

Phone:918-252-6000/800-879-6000

CAGE:EO264

===== Composition/Information on Ingredients =====

Ingred Name:LEAD STYPHNATE

CAS:15245-44-0

Fraction by Wt: 1%

OSHA PEL:0.050 MG/M3 (MFR)

ACGIH TLV:0.150 MG/M3 (MFR)

Ingred Name:

1-TETRAZENE, 1-GUANYL-4-NITROSAMINO GUANYL-; (TETRACENE)

CAS:109-27-3

RTECS #:XF6900000

Fraction by Wt: 0.1%

Ingred Name:BARIUM (II) NITRATE (1:2)

CAS:10022-31-8

RTECS #:CQ9625000

Fraction by Wt: 1%

OSHA PEL:5 MG/M3

ACGIH TLV:2 MG/M3

Ingred Name:NITROGLYCERIN (NG) (SARA 313) (CERCLA)

CAS:55-63-0

RTECS #:QX2100000

Fraction by Wt: 5-11%

OSHA PEL:0.2 MG/M3, S, C

ACGIH TLV:0.05 PPM, S

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:NITROCELLULOSE

CAS:9004-70-0

RTECS #:QW0970000

Fraction by Wt: 7

-11%

Ingred Name:BRASS

RTECS #:EO3000000

Fraction by Wt: 65-85%

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NO HAZARDS EXPECTED. POSSIBLE

IRRITATION FROM FUMES & GASES UNDER CERTAIN CONDITIONS SUCH AS

EXCESSIVE FIRING WITH LITTLE AIR MOVEMENT. EXCESSIVE EXPOSURE MIGHT

CAUSE IRRITATION TO THE EYES, SKIN & RESPIRATORY SYSTEM. ADVERSE HEALTH EFFECTS ARE NOT EXPECTED FROM LONG TERM EXPOSURE TO FUMES & GASES, (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HEALTH HAZ: HOWEVER GOOD PERSONAL HYGIENE PRACTICES ARE ESSENTIAL TO KEEP EXPOSURE TO A MINIMUM. CHRONIC: LEAD COMPOUNDS APPEAR ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS LIST. SEEK CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONALS CONCERNING LATEST HAZARD LIST INFO & SAFE HANDLING & EXPOSURE INFO .

Medical Condition Aggravated by Exposure:NONE ANTICIPATED.

===== First Aid Measures =====

First Aid:EYES: FLUSH WITH PLENTY OF WATER. CONSULT MD IF SYMPTOMS PERSIST.  
SKIN: PRACTICE GOOD HYGIENE BY WASHING WITH SOAP & WATER AFTER USING & BEFORE MEALS. INHAL: MOVE TO FRESH AIR. GET MED ATTENTION IF SYMPTOMS PERSIST. INGEST: GET IMMEDIATE MED ATTENTION. OTHER: SEEK PROMPT MED ATTENTION IF PHYSICAL INJURY OCCURS FROM PINS, RIVETS, SHRAPNEL, ETC. FOR BLEEDING WOUNDS, PLACE CLEAN MATERIAL ON WOUND & APPLY FIRM PRESSURE. ELEVATE (SUPDAT)

===== Fire Fighting Measures =====

Extinguishing Media:WATER.  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT . FLOOD AREA WITH WATER OR KEEP CARTRIDGES COOL WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:CARTRIDGES CAN EXPLODE IF EXPOSED TO TEMPERATURES ABOVE 200C.

===== Accidental Release Measures =====

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. DO NOT CRUSH/DROP. KEEP AWAY FROM EXCESS HEAT, ELECTRIC CURRENT, STRONG ACIDS & OXIDIZERS. NFPA 495 REQS 15 FT (SUPDAT)  
Other Precautions:USE ONLY IN POWDER ACTUATED TOOLS DESIGNED TO HANDLE THESE BOOSTERS

. EMPLOYEES MUST BE PROPERLY TRAINED AS PRESCRIBED BY  
APPLICABLE OSHA REGULATIONS 29 CFR 1910.243 (D) OR 1926.302 (E).

===== Exposure Controls/Personal Protection =====

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

Ventilation:GENERAL (I.E. NATURAL OR MECHANICALLY INDUCED FRESH AIR  
MOVEMENTS THAT MAINTAIN VAP CONCS BELOW RECOM EXPOS LIMITS).

Protec

tive Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED SAFETY GLASSES .

Other Protective Equipment:HEARING PROT:MUFF/AURAL INSERTS. REFER TO  
APPLIC OSHA REG 29 CFR 1910.95 OR 1925.101.

Work Hygienic Practices:CLEANING PWDR ACTUATED TOOLS CAN RSLT IN SOME  
EXPOS TO LEAD CMPDS. WEAR GLOVES/WASH HANDS THORO AFTER HNDLG &  
(SUPDAT)

Supplemental Safety and Health

FIRST AID PROC: THE WOUND & TRANSPORT IMMED TO MED FACILITY. WASTE DISP  
METH: DESIGNED FOR DESTROYING HAZ AMMUNITION. H

NDLG STOR PREC:

SEPARATION (OR 1 HR FIRE WALL) FROM FLAMM LIQS, FLAMM SOLIDS & OX  
IDIZERS. HYGIENE PRACT: BEFORE MEALS ORSNACKS.

===== Physical/Chemical Properties =====

Appearance and Odor:BRASS CASING COLOR CODED ON STAR CRIMP.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND OXIDIZING MATERIALS.

Stability Condition to Avoid:ACIDS, EXCESS HEAT, CRUSHING AND  
ELECTRICAL CURR

ENTS.

Hazardous Decomposition Products:OXIDES OF NITROGEN, ACRID FUMES AND  
LEAD.

===== Disposal Considerations =====

Waste Disposal Methods:DISP MUST BE I/A/W FED, STATE & LOC REGS .

MISFIRES, BENT CARTRIDGES, ETC. SHOULD BE STORED IN CNTNR OF WATER  
TO WHICH DETERGENT HAS BEEN ADDED AS "WETTING" AGENT. ONLY PROPER  
DISP METH IS TO IN CIN IN SM AMTS IN BURNER SPECIFICALLY (SUPDAT)

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