



HARD-N-TUFF

MSDS Number

BLSGM

National Stock Number

3439-00N022271

Product Name

HARD-N-TUFF

Manufacturer

AMERICAN CHEMICAL AND FLUX PRODUCTS

Product Identification

Product ID:HARD-N-TUFF

MSDS Date:06/01/1990

FSC:3439

NIIN:00N022271

MSDS Number: BLSGM

Responsible Party

AMERICAN CHEMICAL & FLUX PRODUCTS

5722 UNION PACIFIC AVE

LOS ANGELES , CA 90022

US

Emergency Phone: 213-723-0713;716-344-1160

Info Phone: 213-723-0713;716-344-1160

Cage: OBTX0

Contractor

MARCO CO

LOS ANGELES, CA 90022-5135

US

213-723-0711

Cage: 55278

Ingredients

3); (CHROMIUM OXIDE)

CAS: 1308-38-9

RTECS: GB6475000

Fraction By Weight: 15%

AMMONIUM CHLORIDE (SARA III)

CAS: 12125-02-9

RTECS: BP4550000

Fraction By Weight: 6.3%

OSHA PEL10 MG/M3/20 STEL

ACGIH TLV: 10 MG/M3 FUME; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS



BORIC ACID; (SODIUM BORATE)

CAS: 10043-35-3

RTECS: ED4550000

Fraction By Weight: 5-10%

MANGANESE DIOXIDE

CAS: 1313-13-9

RTECS: OP0350000

Fraction By Weight: 5-10%

OSHA PEL5MG/M3 (AS MN CPDS)

ACGIH TLV: 5 MG/M3 (AS MN DUST)

CARBON SAND; (CALCINED PETROLEUM COKE FLOUR)

CAS: 64743-05-1

Fraction By Weight: 5-10%

1); (SODA ASH)

CAS: 497-19-8

RTECS: VZ4050000

Fraction By Weight: 5-10%

TITANIUM DIOXIDE

CAS: 13463-67-7

RTECS: XR2275000

Fraction By Weight: 5-10%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

ORAL(RAT)3160 MG/KG

CAS: 112945-52-5

RTECS: VV7310000

Fraction By Weight: 5-10%

OSHA PEL6 MG/M3 TDUST (MFR)

ACGIH TLV: 10 MG/M3 TDUST (MFR)

Hazards

LD50 LC50 Mixture:SEE INGREDIENTS

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

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

Health Hazards Acute and Chronic:GENERALLY VIEWED AS NON-TOXIC. AVOID INHALATION AS WITH ANY METAL OXIDE DUST.

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:NOT APPLICABLE.

Medical Cond Aggravated by Exposure:NOT APPLICABLE.



First Aid

First Aid:SKIN: FLUSH WITH WATER. EYES: FLUSH WITH WATER FOR AT LEAST 15 MIN. INHAL: REMOVE TO FRESH AIR. SUPPORT BRTHG. (GIVE O2/ARTF RESP) . INGEST: CALL MD IMMED .

Fire Fighting

Flash Point:NONE

Extinguishing Media:NOT APPLICABLE. MEDIA SUITABLE FOR SURROUNDING FIRE

Fire Fighting Procedures:NOT APPLICABLE. WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE.

Accidental Release

Spill Release Procedures:SWEEP UP, AVOID AERATION TO MAKE DUST. CAN BE REUSED IF NOT CONTAMINATED WITH OTHER MATERIALS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:AVOID DUSTING, KEEP DRY. AVOID CONTACT WITH EYES. DO NOT TAKE INTERNALLY. AVOID INHALATION.

Other Precautions:NOT APPLICABLE.

Exposure Controls

Respiratory Protection:IN DUST FORM WEAR NIOSH/MSHA APPROVED RESPIRATOR FOR METALLIC OXIDES.

Ventilation:USE IN WELL VENTILATED AREA.

Protective Gloves:RECOMMENDED.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NOT APPLICABLE.

Work Hygienic Practices:WASH SKIN CONTACT AREAS WITH SOAP AND WATER. DO NOT USE OR HANDLE NEAR FOOD.

Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.

Chemical Properties

HCC:V7

Spec Gravity:0.71

Solubility in Water:48%

Appearance and Odor:GREEN POWDER, SLIGHT AMMONIA ODOR.

Stability

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:DO NOT MIX WITH OTHER MATERIALS. USE ONLY AS DIRECTED.

Hazardous Decomposition Products:AT HIGH TEMPERATURE PRODUCTS MAY LIBERATE AMMONIA.

Disposal

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH CURRENT PRACTICE FOR METAL SALTS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS .

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