

MINE SAFETY APPLIANCES CO -- 458480 TUBE, VENTILATION SMOKE, PKG OF 12 --  
6635-01-375-7977

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

Product ID:458480 TUBE, VENTILATION SMOKE, PKG OF 12

MSDS Date:08/01/1993

FSC:6635

NIIN:01-375-7977

MSDS Number: CDKMJ

=== Responsible Party ===

Company Name:MINE SAFETY APPLIANCES CO

Box:426

City:PITTSBURG

State:PA

ZIP:15230

Country:US

Info Phone Num:412-967-3000

Emergency

Phone Num:412-967-3000

CAGE:8F723

=== Contractor Identification ===

Company Name:MINE SAFETY APPLIANCES CO

Address:121 GAMMA DR

Box:426

City:PITTSBURGH

State:PA

ZIP:15230-0426

Country:US

Phone:724-733-9270

CAGE:8F723

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

Ingred Name:AMPOULE 1, CONTAINING INGREDIENTS 2 AND 4; APPEAR/ODOR:  
WHITE GRANULES, VINEGAR ODOR

Fraction by Wt: 100%

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:ACETIC ACID (CERCLA) BP: 244F,118C; SPEC GRAV:

1.05  
(H\*2O=1); VP: 14.8 @ 25C; SOL IN WATER: SOLUBLE; (ING 3)  
CAS:64-19-7  
RTECS #:AF1225000  
Fraction by Wt: 50%  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM/15 STEL  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ING 2: FL PT: 103F,39C; LEL: 4%; UEL: 19.9%; LD50 (ORAL  
RAT): 3310 MG/KG  
RTECS #:9999999ZZ

Ingred Name:SILICA GEL  
CAS:63231-67-4  
RTECS #:VV7322000  
Fraction by Wt: 50%  
OSHA PEL:80 MG/M3 / % SIO2  
ACGIH TLV:10 MG/M3

Ingred Name:AMPOULE 2, CONTAINING INGREDIENTS 6 TO 8; APPEAR/ODOR: GR  
AY  
TO BLACK GRANULES, AMMONIA ODOR  
Fraction by Wt: 100%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:1,2-ETHANEDIAMINE; (1,2-DIAMINOETHANE) (SARA 302) (CERCLA)  
BP:243F,117C; SPEC GRAV:0.90 (H\*2O=1); VP:10 @ 20C; (ING 7)  
CAS:107-15-3  
RTECS #:KH8575000  
Fraction by Wt: 50%  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM, S  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ING 6: SOL IN WATER: SOLUBLE; FL PT: 93F, 33.9C; LEL: 4.2%;  
UEL: 14.4%; LD50 (ORAL RAT): 1160 MG/KG  
RTECS #:9999999ZZ

Ingred Nam

e:PUMICE  
CAS:1332-09-8  
Fraction by Wt: 50%  
OSHA PEL:N/K  
ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:SUP DAT: TO DILUTE CHEMICAL. GET MEDICAL ATTENTION IMMED.  
SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. SEE MD .  
RTECS #:9999999ZZ

Ingred Name:SPILL PROC: BUCKET. EXAMINE TUBE TO BE SURE BOTH AMPOULES  
W/IN TUBE ARE CRUSHED. IF BOTH AMPOULES ARE CRUSHED, (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10: PLACE TUBE W/CONTENTS INTO BUCKET SO THAT TUBE IS  
IMMERSED. IF TUBE CONTAINS UNBROKEN AMPOULE,  
CRUSH IT (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11: (W/IN TUBE) & IMMERSE TUBE & ITS CONTENTS IN  
BUCKET. IF UNBROKEN AMPOULE HAS BEEN RELEASED FROM TUBE, (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12: REPLACE IT IN TUBE, CRUSH IT (W/IN TUBE), & IMMERSE  
TUBE W/CONTENTS IN BUCKET. IN ALL CASES LET TUBE (ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13: SOAK OVERNIGHT. PUT ON RUBB GLOVES & SPLASHPROOF  
GOGG. FILTER SOLIDS FROM WATER & DISP TO TRASH. (ING 15)  
RTECS #:9999999ZZ

Ingred  
Name:ING 14: THE FILTERED WATER CAN BE RELEASED TO THE DRAIN.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: USE OF PERSONAL PROTECTIVE EQUIPMENT IS  
NOT INDICATED UNDER ANTICIPATED CONDITIONS OF USE. (ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16: THE USER IS CAUTIONED TO AVOID BREATHING THE TUBE  
EMISSIONS WHICH ARE IRRITANT.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:SEE INGREDIENTS.

Routes of Entry: Inhalation:YES Skin:

YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: ACETIC ACID: CORR, TOX. SKIN & EYE IRRIT. IMMEDIATE DANGEROUS TO LIFE/HLTH CONC IS 1000 PPM.

ETHYLENEDIAMINE: IRRIT, TOX, SENSITIZER. SKIN & EYE IRRIT. IMMEDIATE DANGEROUS TO LIFE/HLTH CONC IS 2000 PPM .

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:ACETIC ACID: IRRIT OF EYES, MUC MEMB, SKIN.

SPLASHES PRODUCE EYE & SKIN BURNS. INGESTION OF 1CM<sup>3</sup> GLACIAL ACID

PRODUCED PERFORATION OF ESOPHAGUS. ETHYLENEDIAMINE: IRRIT OF EYES, SKIN, MOUTH. TARGET ORGANS: ACETIC ACID: EYES, NOSE, THROAT, MOUTH.ETHYLENEDIAMINE: EYES, NOSE, THROAT, SKIN, LIVER, KIDNEYS.

Medical Cond Aggravated by Exposure:NO INFORMATION.

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

First Aid:AS SMOKE PUFF GENERATION IS UNDER MANUAL CTL OF USE BY ACTUATION OF SQUEEZE BULB, OVEREXP IS UNLIKELY UNDER INTENDED CNDTNS OF USE. FIRST AID PROC FOLLOW S HOULD OVEREXP SOMEHOW OCCUR.

INHAL: REMOVE FROM EXPOS. IF BRTHG IS DFCLT, ADMIN OXYGEN. GET MED ATTN IMMEDIATE. IF BRTHG HAS STOPPED, GIVE ARTF RESP. GET MED ATTN IMMEDIATE. EYES: REMOVE FROM EXPOS. FLUSH EYES W/WATER FOR AT LEAST 15 MIN (SUP DAT)

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

Flash Point:93.0F,33.9C

Lower Limits:SEE INGS

Upper Limits:SEE INGS

Extinguishing Media:AS NEEDED FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:AMPOULES MAY RUPTURE & EMIT TOX FUMES UNDER FIRE CNDTNS. NOTE: COMPONENTS ARE SORBED ON INERT SOLIDS. TOTAL AMT OF COMBUST/FLAMM MATL IS