

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) & IMMERSER 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), & IMMERSER  
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

PRODUCES 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 Condition Aggravated by Exposure:NO INFORMATION.

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

First Aid:AS SMOKE PUFF GENERATION IS UNDER MANUAL CONTROL OF USE BY ACTUATION OF SQUEEZE BULB, OVEREXPOSURE IS UNLIKELY UNDER INTENDED CONDITIONS OF USE. FIRST AID PROCEDURES SHOULD FOLLOW SHOULD OVEREXPOSURE SOMEHOW OCCUR.

INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. EYES: REMOVE FROM EXPOSURE. FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES (SEE DATA SHEET)

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

Flash Point:93.0F,33.9C

Lower Limits:SEE INGESTION

Upper Limits:SEE INGESTION

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 TOXIC FUMES UNDER FIRE CONDITIONS. NOTE: COMPONENTS ARE ADSORBED ON INERT SOLIDS. TOTAL AMOUNT OF COMBUSTIBLE/FLAMMABLE MATERIAL IS