

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

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

Product ID:MSA 458480 TUBE VENTILATION SMOKE, PKG 12

MSDS Date:06/17/1993

FSC:6635

NIIN:01-375-7977

MSDS Number: BSDDC

=== 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:3J685

=== Contractor Identification ===

Company Name:MINE SAFETY APPLIANCES CO

Box:City:PITTSBURG

State:PA

ZIP:15230

Country:US

Phone:412-967-3000

CAGE:3J685

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

Ingred Name:AMPOULE 1 (CONTAINING INGREDIENTS 2 & 3)

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:ACETIC ACID (SARA III) LD50 (ORAL, RAT): 3310 MG/KG

CAS:64-19-7

RTECS #:AF1225000

Fraction by Wt: 50%

OSHA PEL:10 PPM

ACGIH TLV:10 PPM; 15 STEL

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PA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:SILICA GEL  
CAS:63231-67-4  
RTECS #:VV7340000  
Fraction by Wt: 50%  
OSHA PEL:6 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:AMPOULE 2 (CONTAINING INGREDIENTS 5 & 6)  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:1,2-ETHANEDIAMINE; (1,2 DIAMINOETHANE); (ETHYLENEDIAMINE)  
(MFR CAS # 107-15-4) LD50 (ORAL, RAT): 1160 MG/KG  
CAS:107-15-3  
RTECS #:KH8575000  
Fraction by Wt: 50%  
OSHA PEL:N/K  
ACGIH TLV:10 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name  
:PUMICE  
CAS:1332-09-8  
Fraction by Wt: 50%  
OSHA PEL:N/K  
ACGIH TLV:10 MG/M3

Ingred Name:UEL: ING 2:19.9%; ING 5: 14.4%  
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:MED ATTN IMMED. NOTE:AS SMOKE PUFF  
GENERATION IS UNDER MANUAL CTL OF USER BY ACTUATION OF SQUEEZE (ING  
9)  
RTECS #:9999999ZZ

Ingred Name:ING 8:BULB, OVEREXP IS UNLIKELY UNDER INTENDED CONDITIONS  
OF USE.  
RTECS #:9999999ZZ

Ingred Name:SPILL PROC:BOTH AMPOULES W/IN TUBE ARE CRUSHED. IF BOTH  
CRUSHED, PLACE TUBE W/CONTENT

S INTO BUCKET SO TUBE IS (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10:IMMERSED. IF TUBE CONTAINS UNBROKEN AMPOULE, CRUSH  
IT(W/IN TUBE) & IMMERSE TUBE & CONTENTS IN BUCKET. IF (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11:UNBROKEN AMPOULE HAS BEEN RELS FROM TUBE, REPLACE IT  
IN TUBE, CRUSH IT (W/IN TUBE) & IMMERSE TUBE WITH (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12:CONTENTS IN BUCKET. IN ALL CASES LET TUBE SOAK  
OVERNIGHT. PUT ON RUB GLOVES & SPLASHPROOF GOGG. FILTER (ING 14)  
RT  
ECS #:9999999ZZ

Ingred Name:ING 13:SOLIDS FROM WATER & DISPOSE TO TRASH. FILTERED WATER  
CAN BE RELEASED TO THE DRAIN.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:EQUIP NOT INDICATED UNDER ANTIC CNDTN OF  
USE.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:SEE INGREDIENTS  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACETIC ACID: IR  
RITATION OF EYES,  
MUCOUS MEMBRANES, SKIN. SPLASHES PRODUCE EYE AND SKIN BURNS.  
INGESTION OF 1 CM3 GLACIAL ACETIC ACID PRODUCED PERFORATION OF THE  
ESOPHAGUS. TARGET ORGANS:EYES, NOSE, TH ROAT, SKIN.  
ETHYLENEDIAMINE: IRRITATIONOF EYE, MUCOUS MEMBRANES, SKIN. TARGET  
ORGANS:EYES, NOSE, (EFTS OF OVEREXP)  
Explanation of Carcinogenicity:NOT RELEVANT  
Effects of Overexposure:HLTH HAZ:THROAT, SKIN, LIVER, KIDNEYS.  
Medical Cond Aggravated by Exposure:NO INFORMATION.

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

First Aid:SKIN:FLUSH W/COPIOUS AMTS WATER. CALL MD . INHAL:REMOVE FROM EXPOS. IF BRTHG DFCLT, ADMIN O\*2. GET MED ATTN IMMED. IF BRTHG STOPPED, GIVE ARTF RESP. GET MED ATTN IMMED. EYES:REMOVE FROM EXPOS. F LUSH W/WATER FOR @ LEAST 15 MIN HOLDINGEYES OPEN & RAISING LIDS TO FLUSH UNDERLID AREAS. SEE MD IMMED. INGEST:IF TUBE CONTENTS INGEST & IF CONSCIOUS, GIVE 2 GLASSES WATER TO DILUTE CHEM. GET (ING 8)

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= Fire Fighting Measures =====

Flash Point:SUPDAT

Lower Limits:SUPDAT

Upper Limits:ING 7

Extinguishing Media:AS NEEDED FOR SURROUNDING FIRE.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:AMPOULES MAY RUPTURE & EMIT TOX FUMES UNDER FIRE CNDTNS. COMPONENTS ARE SORBED ON INERT SOLID. TOTAL AMT COMBUST/FLAM MATL