

MINE SAFETY APPLIANCES CO DBA MSA -- MSA P/N 85984 CANDLE, OXYGEN, LARGE, TYPE B --
4460-00-875-4568

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

Product ID:MSA P/N 85984 CANDLE, OXYGEN, LARGE, TYPE B

MSDS Date:06/01/1987

FSC:4460

NIIN:00-875-4568

MSDS Number: BFTKX

=== Responsible Party ===

Company Name:MINE SAFETY APPLIANCES CO DBA MSA

Address:3880 MEADOWBROOK RD

Box:426

City:MURRYSVILLE

State:PA

ZIP:156

68-1753

Country:US

Info Phone Num:412-325-1313

Emergency Phone Num:412-325-1313

CAGE:55799

=== Contractor Identification ===

Company Name:MINE SAFETY APPLIANCES CO

Address:RD 2 EVANS CITY PLANT

Box:City:EVANS CITY

State:PA

ZIP:16033-1291

Country:US

Phone:412-538-3510

CAGE:6G259

Company Name:MINE SAFETY APPLIANCES CO DBA MSA

Address:3880 MEADOWBROOK RD

Box:City:MURRYSVILLE

State:PA

ZIP:15668-1753

Country:US

Phone:724-733-9272

CAGE:55799

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

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Ingred Name:SODIUM CHLORATE
CAS:7775-09-9
RTECS #:FO0525000
Fraction by Wt: 90-95%
Other REC Limits:NONE SPECIFIED

Ingred Name:BARIUM PEROXIDE
CAS:1304-29-6
RTECS #:CR0175000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED

Ingred Name:IRON ION (FE +2)
CAS:15438-31-0
RTECS #:NO6925000
OSHA PEL:1 MG/M3 (FE)
ACGIH TLV:1 MG/M3 (FE); 8990

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

LD50 LC50 Mixture:LD50 (ORAL HUMAN) IS 50-500 MG/KG EST.

Routes of Entry: I

Inhalation:NO Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:EYE/SKIN:IRRITATION. CAN CAUSE
CONJUNCTIVITIS. IRRITATING TO MUCOUS MEMBRANES. PROLONGED EXPOSURE
TO DUST MAY CAUSE IRRITATION TO SKIN, MUCOUS MEMBRANES AND EYES.
INGESTION OF LARGE QUANTITIES MAY BE FATAL. TARGET ORGANS INCLUDE
BLOOD AND KIDNEYS.

Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS
LISTED BY IARC, NTP OR OSHA AS A CAR
CINOGEN.

Effects of Overexposure:IRRITATION OF EYES, SKIN, AND MUCOUS MEMBRANES.
SYMPTOMS INCLUDE NAUSEA, VOMITING, ABDOMINAL PAIN, BLUENESS,
DIARRHEA, DIFFICULT BREATHING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF EYE,
SKIN, RENAL, BLOOD AND RESPIRATORY DISORDERS MAY BE AT INCREASED
RISK FROM EXPOSURE.

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

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.
GET MEDICAL AT

ATTENTION. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT AND CALL A PHYSICIAN IMMEDIATELY. INGESTION: CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER IF VICTIM IS CONSCIOUS.

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

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.

F

Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. CONTAINERS MAY RUPTURE IN FIRE.

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

Spill Release Procedures: SWEEP UP CAREFULLY AND PUT IN MARKED DISPOSAL CONTAINER. AVOID

CREATION OF DUSTY CONDITIONS. CONCRETE OR METAL FLOORS CAN BE FLUSHED WITH WATER. DO NOT WET WOOD FLOORS.

Neutralizing Agent: NONE

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

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions: KEEP MATERIAL FROM CONTACT WITH EASILY OXIDIZABLE ORGANICS. DO NOT SLIDE OR SKID DRUMS.

GOOD HOUSEKEEPING PROCEDURES AND ESSENTIAL. DO NOT STORE ON WOODEN FLOORS. PROVIDE ADEQUATE VENTILATION TO KEEP MATERIAL FROM SETTLING ON WALKWAYS ETC.

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

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION. CONSIDER MATERIAL AS NUISANCE DUST.

Vent

ilation:MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.
Protective Gloves:RUBBER/OTHER GLOVES TO MINIMIZE CONTACT.
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE
WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED
CONTACT.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE
EATING OR DRINKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health
DO NOT
STORE ON WOODEN FLOORS OR SLIP OR SKID CANDLES.

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

HCC:D1
Boiling Pt:B.P. Text:570F DEC.
Spec Gravity:2.49
Solubility in Water:45%
Appearance and Odor:SLIGHTLY TAPERED CYLINDRICAL SOLID, LIGHT GRAY,
ODORLESS

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

Stability Indicator/Materials to Avoid:YES
METAL FINES, ACIDS, AMMONIUM SALTS, SULFUR, SULFIDES, MANGANESE
DIOXIDE, CYANIDES, THIOCYANATES, WOOD SURFACES.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION; ORGANIC MATERIALS, FLAMMABLE MATERIALS.
Hazardous Decomposition Products:CHLORINE AND CHLORINE DIOXIDE.

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

Waste Disposal Methods:PLACE IN METAL DRUM AND DISPOSE OF IN ACCORDANCE
WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WASTE
MATERIAL MAY BE A HAZARDOUS WASTE.

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