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# SULFUR DIOXIDE

**MSDS Number** 

BLBPR

**National Stock Number** 

6830-00N016369

#### **Product Name**

SULFUR DIOXIDE

Manufacturer

AIR PRODUCTS AND CHEMICALS CO

## **Product Identification**

Product ID:SULFUR DIOXIDE MSDS Date:02/01/1991 FSC:6830 NIIN:00N016369 MSDS Number: BLBPR

## **Responsible Party**

AIR PRODUCTS & CHEMICALS CO

7201 HAMILTON BLVD

ALLENTOWN , PA 18195-1501

US

Emergency Phone: 800-322-9092 OR 800-523-9374

Info Phone: 215-481-8257

Cage: 00742

### Contractor

AIR PRODUCTS AND CHEMICALS INC

ALLENTOWN, PA 18195-1501

US

800-345-3148/ 800-752-1597

Cage: 00742

# Ingredients

PROMPTLY IF CRYOGENIC "BURN" HAS RESULTED IN RTECS: 99999992Z

OUTLET SEALS SECURED & VALVE PROT CAP IN RTECS: 99999992Z

PHONE NUMBER LISTED HEREIN. RTECS: 99999992Z

DISCHARGE LINE TO PVNT HAZ BACKFLOW INTO CYL. RTECS: 99999992Z



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TECH INFO SECTION/COMPRESSED GAS ASSOC PAMPHLET P-1. RTECS: 99999992Z

OTHER COMMON CONSTRUCTION METALS EXCEPT ZINC.MOST RTECS: 99999992Z

& SULFUR DIOXIDE. STAINLESS STEEL TYPE 316 CAN BE RTECS: 99999992Z

CYLS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED RTECS: 99999992Z

GAS CYL WHICH HAS NOT BEEN FILLED BY OWNER OR RTECS: 99999992Z

MAY ADD FULL LENGTH FACESHIELD TO GOGGLES . RTECS: 99999992Z

SULFUR DIOXIDE (SARA III) CAS: 7446-09-5 RTECS: WS4550000 OSHA PEL5 PPM/5 STEL ACGIH TLV: 2 PPM/5 STEL; 9293

EXTREMELY DESTRUCTIVE TO TISS OF AIRWAY, EYES & RTECS: 99999992Z

OF SPASM, INFLAMM & EDEMA OF LARYNX & BRONCHI, CHEM RTECS: 99999992Z

MAY RESULT IN ULCERATION OF CONJUNCTIVA & CORNEA & RTECS: 99999992Z

SEVERE BURNS. SYSTEMIC TOX DUE TO SULFUR DIOXIDE IS RTECS: 99999992Z

COLOR OF SKIN TO GRAY OR WHITE, POSSIBLY FOLLOWED BY RTECS: 99999992Z

FLUSH W/LG QTYS OF WATER FOR AT LEAST 15 RTECS: 99999992Z



FLUSH W/LG QTYS OF WATER. REMOVE CLTHG

RTECS: 9999999ZZ

REMOVE CONTAMD CLTHG & FLUSH W/LUKEWARM

RTECS: 9999999ZZ

#### Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:CORR/IRRIT TO UPPER/LOWER RESP TRACTS, SKIN/EYES. SYMPS DEPEND ON CONC/DURATION OF EXPOS & VARY FROM MILD IRRIT TO SEVERE DESTRUCTION OF TISS. MAY ALSO INCLD BURNING SENSATIONS, COUGH, WHEEZING, LARYN GITIS, SHORT OF BREATH, HDCH, NAUSEA & VOM. IF SULFUR DIOXIDE PENETRATES LOWER AIRWAY, CAN PRDCE (SEE EFTS OF OVEREXP)

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Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:BRONCH, CHEM PNEUM/PULM EDEMA. EYE CNTCT RESULTS IN PAIN, TEARING, INFLAMM, SWELLING OF TISS & POSS DESTRUCTION OF EYE. SKIN CNTCT CAUSES IRRIT/CHEM-LIKE BURNS. CNTCT W/RAPIDLY EVAP LIQ CAN C AUSE CRYOGENIC "BURNS"/FROSTBITE. EXPOSTO ATM CONTAMD W/SULFUR DIOXIDE IS EXTREMELY IRRIT. ODOR & PROMPT (SUPP DATA)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

### **First Aid**

First Aid:PROMPT MD ATTN IS REQ IN ALL CASES OF OVEREXP. RESCUE PERSONNEL SHOULD BE EQUIPPED W/APPROP PROT EQUIP (SCBA) TO PVNT UNNEC EXPOS. INHAL:MOVE TO UNCONTAMD AREA. IF NOT BRTHG GIVE ARTF RESP, PREF MOUTH -TO-MOUTH. IF BRTHG DFCLT, GIVE O\*2. KEEP WARM/QUIET. ASSUME MUCUS/VOMITED MATL DOES NOT OBSTRUCT AIRWAY BY POSITIONAL DRAINAGE. MD SHOULD BE INFORMED THAT PATIENT INHALED ACIDIC VAPS. (SEE ING 7)

### **Fire Fighting**

Extinguishing Media:NONFLAMMABLE GAS. WILL EXTINGUISH FIRE. Fire Fighting Procedures:IF POSS W/O RISK, MOVE CYLS AWAY FROM FIRE AREA. FROM SAFE DISTANCE, COOL CYLS W/WATER SPRAY UNTIL WELL AFTER FIRE OUT. WEAR NIOSH/MSHA APPRVD SCBA &(SUPP DATA) Unusual Fire/Explosion Hazard:CYLINDERS THAT HAVE BEEN EXPOSED TO FIRE OR HEAT MAY VENT RAPIDLY OR EXPLODE.

### **Accidental Release**

Spill Release Procedures:EVACUATE PERSONNEL FROM AFFECTED AREA. USE APPROP PROT EQUIP. IF LEAK IS IN USER'S EQUIP, BE CERTAIN TO PURGE PIPING W/AN INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CYLINDER/CYLINDER VALVE, CALL THE "800" EMER PHONE NUMBER LISTEDHEREIN.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

# Handling

Handling and Storage Precautions:USE ONLY IN WELL-VENT AREAS. VALVE PROT CAPS MUST REMAIN IN PLACE UNLESS CYL IS SECURED W/VALVE OUTLET PIPED TO USE PT. DO NOT DRAG/SLIDE/ROLL CYLS. Other Precautions:USE SUITABLE HAND TRUCK FOR CYL MOVEMENT. USE PRESS REDUCING REGULATOR WHEN CONNECTING CYL TO LOWER PRESS (PIPING/SYS. DO NOT HEAT CYL BY ANY MEANS TO INCR DISCHARGE RATE OF PROD FROM CYS. USE CHECK VALVE/TRAP IN (SEE ING 13)

# **Exposure Controls**

Respiratory Protection:NIOSH/MSHA APPROVED POSITIVE PRESSURE AIR LINE W/RESPIRATOR OR SCBA SHOULD BE AVAILABLE FOR EMERGENCY USE. Ventilation:USE HOOD W/FORCED VENT &/OR LOC EXHAUST TO PVNT ACCUMULATION ABOVE TWA. HEAVY VAPS REQUIRE GOOD FLOOR-LEVEL VENT.



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Protective Gloves:PLASTIC OR RUBBER GLOVES. Eye Protection:CHEMICAL WORKERS GOGGLES, (SEE ING 19) Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER, EYEWASH FOUNTAIN, CHEMICAL RESISTANT OVERGARMENTS. DELUGE SHOWER . Work Hygienic Practices:PERSONS W/POTENTIAL EXPOSURE TO SULFUR DIOXIDE SHOULD NOT WEAR CONTACT LENSES. Supplemental Safety and Health MATLS TO AVOID:W/CHLORATES TO FORM CHLORINE WHICH AT ELEVATED TEMP MAY BECOME EXPLO RXN. SULFUR DIOXIDE DISSOLVES IN WATER TO FORM SULFUROUS ACID WHICH IS UNSTABLE WHEN EXPSD TO HEAT. FIRE FIGHT PROC: FULL PROT EQUIP .EFTS OF OVEREXP:IRRITANT ACTION PROVIDE WARNING OF EXPOS TO TOX CONDS. HIGH CONCS ARE (SEE ING 2)

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#### **Chemical Properties**

HCC:G1 Boiling Pt:B.P. Text:14F,-10C Vapor Pres:49.7 PSIG Spec Gravity:2.249 Solubility in Water:SOLUBLE Appearance and Odor:COLORLESS GAS WITH HIGHLY IRRITATING, PUNGENT ODOR.

#### Stability

Stability Indicator/Materials to Avoid:YES ZINC. REACTS VIOLENTLY W/PEROXIDES, CHROMATES, BICHROMATES, PERMANGANATES, & OXYGEN DIFLUORIDE. ALSO REACTS (SUPP DATA) Stability Condition to Avoid:AVOID MOISTURE IN PROCESS SYSTEMS.

#### Disposal

Waste Disposal Methods:ALL FED, STATE, & LOCAL REGS REGARDING HLTH & POLLUTION SHOULD BE FOLLOWED IN WASTE DISP. CNTCT MFR FOR SPECIFIC RECOMMENDATIONS. DO NOT DISPOSE OF UNUSED QTY. RETURN PROPERLY LABELED SHIPPING CNTNR T O MFR FOR DISP W/VALVE TIGHTLY CLOSED,(SEE ING 11)

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