

Material Safety Data Sheet

Provided by:
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name SULFUR DIOXIDE
Synonyms SULFUROUS ACID ANHYDRIDE, SULFUR OXIDE, SULPHUR DIOXIDE
Chemical Name SULFUR DIOXIDE **Date of Issue:** 10/1/00
Emergency phone: 281-457-4888 **Reviewed / Revision Date:** 3/27/2007
Chemtrec: 800-424-9300

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
SULFUR DIOXIDE	> 99%	7446-09-5

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 2 ppm
Eye Contact CAN CAUSE FROSTBITE, BURNS, AND PERMANENT DAMAGE TO THE CORNEA.
Skin Contact CAN CAUSE FROSTBITE AND BURNS.
Ingestion INGESTION NOT LIKELY. HARMFUL IF SWALLOWED.
Inhalation MAY BE HARMFUL IF INHALED. HIGH CONCENTRATIONS MAY BE FATAL.
Carcinogenicity: NTP NO IARC NO OSHA NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.
Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.
Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (°F) NOT APPLICABLE
Extinguishing Media USE MEDIA APPROPRIATE FOR SURROUNDING AREA.
Special Firefighting Procedures/Precuations WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. AVOID BREATHING FUMES OR VAPORS. MOVE CONTAINERS FROM FIRE AREA IF POSSIBLE.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill:

KEEP OUT OF SEWERS AND WATERWAYS. ONLY TRAINED PERSONNEL SHOULD RESPOND WEARING APPROPRIATE GEAR. SO₂ GAS IS HEAVIER THAN AIR AND CAN ACCUMULATE IN LOW AREAS OR FLOW DOWNHILL. DO NOT OPEN SPILL AREA UNTIL AIR SAMPLES SHOW THE ATMOSPHERE TO BE SAFE. STOP LEAK IF IT CAN BE DONE WITHOUT RISK. CONTROL LEAKS BY CLOSING OR CAPPING VALVES. NEVER APPLY WATER TO LEAK. CAN BE NEUTRALIZED WITH AQUEOUS SOLUTION OF LIME, CAUSTIC, OR SODA ASH.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

PERSONNEL SHOULD BE THOROUGHLY TRAINED. MATERIALS SHOULD BE STORED IN APPROVED CONTAINERS. STORE AWAY FROM COMBUSTIBLES. AVOID EXPOSURE TO MOISTURE, HIGH TEMPERATURES, AND INCOMPATIBLE MATERIALS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection

USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE ACTUAL OR POTENTIAL AIRBORNE CONCENTRATIONS EXCEED REGULATORY STANDARDS AND/OR INDUSTRIAL RECOMMENDATIONS.

Ventilation

LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves

CHEMICAL IMPERVIOUS GLOVES.

Eye/Face Protection

CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD DEPENDENT ON USE OF MATERIAL.

Other Protection

CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC. DEPENDENT ON USE OF MATERIAL.

Work Practices

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F):	14	Vapor Pressure (mmHg):	2475
Freezing Point (°F):	-103	Vapor Density (Air=1):	2.2
Solubility (H₂O):	PARTIALLY	Specific Gravity (H₂O=1):	1.2 - 1.5
pH	NOT APPLICABLE	Evaporation Rate:	40.18 g/m ² /S
Appearance/Odor:	COLORLESS GAS OR LIQUID WITH A STRONG PUNGENT ODOR		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

YES

Incompatible Material:

STRONG BASES, HALOGENS, METALS, AMMONIA, OXIDIZING AGENTS, CHLORATES, METAL OXIDES, HYDRIDES, AZIDES, SODIUM CARBIDE, AND ACROLEIN.

Hazardous Polymerization:

WILL NOT OCCUR.

Decomposition Products:

DOES NOT DECOMPOSE BUT WILL REACT WITH WATER OR STEAM TO PRODUCE CORROSIVE SULFUROUS ACID.

SECTION 11 - TOXICITY INFORMATION

LC50 INHL (rat) = > 2520 ppm (1-HR)
LC50 INHL (mouse) - 3000 ppm (30-MIN)

