# Material Safety Data Sheet

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S	SECTION 1 - CHEMICAL PRODUCT AND CO	MPANY IDENTIFIC	ATION	
Product Name	SULFUR DIOXIDE			
Synonyms	SULFUROUS ACID ANHYDRIDE, SULFUR OXIDE, SULPH	HUR DIOXIDE		
Chemical Name	SULFUR DIOXIDE	Date of Issue:	10/1/00	
Emergency phone:		<b>Reviewed</b> / <b>Revision</b>	n Date: 3/27/2007	
Chemtrec:	800-424-9300 SECTION 2 - COMPOSITION/INFORMAT	YON ON INCREDIE	NTS	
			CAS NO.	
SULFUR DIOXIDE		> 99%	7446-09-5	
	SECTION 3 - HAZARDS IDEN	ITFICATION		
Potential Health Eff	fects			
ACGIH - TLV:	2 ppm			
Eye Contact	CAN CAUSE FROSTBITE, BURNS, AND PERMANENT	DAMAGE TO THE CORNE	Α.	
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 PROC	EDCURES		
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 WATE OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATT TO AN UNCONSCIOUS PERSON!			
	SECTION 5 -FIRE FIGHTING MEAS	URES		
Flash Point (°F)	NOT APPLICABLE			
Extinguishing Med	dia USE MEDIA APPROPRIATE FOR SURROUNDIN	NG AREA.		
Special Firefightin Procedures/Precua		V AREAS. AVOID BREATH	HING	

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.
<b>Protective Gloves</b>	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**

<b>Boiling Point</b> (°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/m2/S

Appearance/Odor: COLORLESS GAS OR LIQUID WITH A STRONG PUNGENT ODOR

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:YESIncompatible Material:STRONG BASES, HALOGENS, METALS, AMMONIA, OXIDIZING AGENTS,<br/>CHLORATES, METAL OXIDES, HYDRIDES, AZIDES, SODIUM CARBIDE, AND<br/>ACROLEIN.Hazardous Polymerization:WILL NOT OCCUR.Decomposition Products:DOES NOT DECOMPOSE BUT WILL REACT WITH WATER OR STEAM TO PRODUCE<br/>CORROSIVE SULFUROUS ACID.SECTION 11 - TOXICITY INFORMATION

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

ALGAE (CELLULAR) = 500 UG/L	(6-DAYS)			
SULFUR DIOXIDE IN WATER FORMS ACID THAT IS HARMFUL TO AQUATIC ORGANISMS.				
SECTION 13 - DISPOSAL CONSIDERATIONS				
DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL. DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.				
	SECTION 14 - TRANSPORT INFORMATION			
USA DOT Shipping Name:	SULFUR DIOXIDE			
Hazard Class:	2.3 (POISONINHALATION HAZARD, ZONE C)			
UN/NA Number:	UN1079			
Packing Group:	NOT APPLICABLE			
Subsidiary Hazard:	(8) CORROSIVE			
Marine Pollutant:	NO			
SECTION 15 - REGULATORY INFORMATION				
CERCLA RQ (lbs): 500 SARA Title III Section 312: Acute Chronic Flammable Sudden Release of Pressure Reactive SARA Title III Section 313: No				
SARA Extremely Hazardous Substance: Yes				
-				
HMIS HAZARD RATING				
Health:	Fire: 0 Reactivity: 0			
0 - Least	1 - Slight 2 - Moderate 3 - High 4 - Extreme			
SECTION 16 - OTHER INFORMATION				
EPA Pesticide Registration Number: NOT APPLICABLE				
NSF Maximum Use Level	for Potable Water (Standard 60): NOT APPLICABLE			

**SECTION 12 - ECOLOGICAL INFORMATION** 

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

## **DISCLAIMER**

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