

Section 1 - Product and Company Identification							
Product Name:				Sulfur Dioxide			
Chemical Form	ula				SO2		
CAS Number:		007446-09-5					
General Use:		Chemical feedstock, food preservative, fumigating pesticide.					
Other Designations:		Sulfurous acid anhydride, sulfurous anhydride, sulfurous oxide.					
Manufacturer:	INEOS Calabrian Corporation 375 Hallnor Rd. Porcupine, ON P0N 1C0						
Telephone:	705-235-	-3134	Fax:	409-727-5803	Emergency Contact:	Quantum Murray 1-647-777-3567	

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		Sect	tion 2 – Hazard	Identifica	tion			
Gases under pressure (Liquefied Gas) Acute Toxicity, Inhalation (Category 3) Skin Corrosion (Category 1B) Serious Eye Damage (Category 1) H280 – Contains gas under pressure (Liquefied Gas) Hazard Statement H280 – Contains gas under pressure (Liquefied Gas) Acute Toxicity, Inhalation (Category 3) Hazard Statement					ains gas under pressure; may			
				nal Word:	H314 – Causes severe skin burns and eye damage. H331 – Toxic if inhaled.			
NFPA Rating Precautionary Statement								
Health Hazard – 3	P260	D	Do not breathe gas					
Fire – 0	P261	A	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.					
Reactivity – 0	P264	V	Wash skin thoroughly after handling					

3	P260	Do not breathe gas					
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.					
	P264	Wash skin thoroughly after handling					
	P271 Use only outdoors or in a well-ventilated area.						
	P280	Wear Protective gloves/ protective clothing/ eye protection/ face protection.					
	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.						
	P303 + P361 + P353 IF ON SKIN (or Hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.						
	P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.						
	P305 + P351 + P338 + P310	+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if					
	P363	Wash contaminated clothing before reuse.					
	P403 + P233	Store in well ventilated place. Keep container tightly closed.					
	P405	Store locked up.					



	P410 + P403	Protect from sunlight. Store in a well-ventilated place.
	P501	Dispose of contents/ container to an approved waste disposal plant.
Other Hazards	Sulfur dioxide is a liquid under pressure.	

Section 3 – Composition / Information on Ingredients						
Composition	CAS Number	% Wt				
Sulfur Dioxide	007446-09-5	100				
Ingredient	CAS Number	% Wt				
Sulfur	007704-34-09	50				
Oxygen	007782-44-7	50				

Section 4 – First Aid Measures					
General Advice:	Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.				
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.				
Eye:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.				
Skin:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.				
Ingested:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.				
The most in	nportant known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11				

Section 5 - Fire-Fighting Measures					
Flash Point:	N/A	Flammability Classification: Not Flammabl			
Flash Point Method:	N/A		UEL:	N/A	
Burning Rate:	N/A	LEL:		N/A	
Auto Ignition Temperature:	N/A				
Extinguishing Media:			Use extinguishing agent appropriate for surrounding fire conditions.		
Unusual Fire or Explosion Hazards:			None Indicated		
Hazardous Combustion	Product:		May release hazardous gas.		
Fire-Fighting Instructions:			Do not release runoff from fire control or waterways.	ol methods to sewers	



	Because fire may produce toxic thermal decomposition products, wear a self-contained				
Fire-Fighting	breathing apparatus (SCBA) with a full-face piece operated in				
Equipment:	pressure-demand or positive-pressure mode.				

Section 6 – Accidental Measures						
Spill / Leak Procedures	Wear appropriate PPE - See Section 8					
Small Spills / Leaks	Spills can be neutralized with an alkaline material such as caustic soda. Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide.					
Large Spills / Leaks	Large spills should be handled according to a predetermined plan. Reduce vapor with fog or fine water spray					
Containment	For large spills, dike far ahead of contaminated runoff for later disposal.					

Section 7 - Handling and Storage					
Handling Precautions:	Avoid contact with product				
Storage Requirements:	Avoid heat or moisture. Store in properly designed pressure vessels, away from heat and protected from physical damage. Segregate from combustible materials.				

Section 8 - Exposure Controls / Personal Protection:								
Component: SU	LFUR DI	OXIDE		CAS Numb	er:	0074	46-09-5	
ACGIH (TI	L V)	•	OSHA (PEL)	NIOSH (REL))
STEL	0.25 ppm, 15 Minutes	TWA	5 ppm, 8 Hours		TWA	2 ppm, 10 hours	STEL	5 ppm, 15 min.
		TWA	TWA 13 mg/m³, 8 hours		TWA	5 mg/m³, 10 hours	STEL	13 mg/m³, 15 min.
IDLH-	100 ppm	Engineering Controls:			Respiratory Protection:			
Dangerous to Life or Health PEL – Permissible Exposure Limit REL – Recommended Exposure Limit Recommended Exposure Limit Recommended Exposure Limit Pendicular ventilation so airborne consiste above. Local is preferred to contaminant		Provide general ventilation syste airborne concen safe exposure li above. Local ex is preferred beca contaminant dis work area by co source.	ems to matrations mits as shaust version	naintain below stated entilation prevents into the g it at the	if necessarespirator protection contaminate emergency vessels, o	SHA respirator regulation ary, wear a MSHA/NIOSH based on its suitability to a for give working condition, and presence of suffey or non-routine operation r storage tanks), wear an S respirators do not protect res.	I-approve provide a ons, level ficient ox as (cleani SCBA. W	ed respirator. Select adequate worker I of airborne ygen. For ng spills, reactor varning! Air-



ACGIH – American		
Conference of		
Governmental Industrial		
Hygienists		
TWA – Time Weighted		
Average based on 8 hour		
exposure days and a 40		
hour week.		
Protective Clothing /	Safety Stations:	Contaminated Equipment:
Equipment:		
Wear protective gloves,	Make emergency eyewash stations,	Separate contaminated work clothes from street clothes.
boots, and clothing to	showers, and washing facilities	Remove this material
prevent prolonged	available in	from shoes and clean personal protective equipment.
or repeated	the work area	
skin contact. Wear		Comments:
protective eyeglasses or		
goggles, per OSHA eye		Do not eat, drink, or smoke in work areas. Practice good
and face		personal hygiene after
protection regulations (29		using this material, especially before food or beverage
CFR 1910.133).		consumption.

Section 9 - Physical and Chemical Properties				
Physical State:	Liquid / Gas Water Solubility: 11g/100g H20 NA			
Appearance:	Colorless	Other Solubility:		
Odor Threshold:	0.5 ppm; Boiling Point:		14° F	
Vapor Density (Air=1):	2.26	Freezing Point:	-104° F	
Vapor Pressure:	2432 mm HG @ 68° F	Melting Point:	-98.9° F	
Density:	N/A	Evaporation Rate:	Rapid	
Specific Gravity (H2O=1):	1.434	рН:	Acidic	
Molecular Weight:	64.07	% Volatile	N/A	

Section 10 - Stability & Reactivity		
Stability:	Stable under normal conditions.	
Polymerization:	Hazardous polymerization will not occur.	
Chemical Incompatibilities:	Contact with powdered potassium, sodium metal oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.	
Conditions to Avoid:	Avoid excessive heat, or open flame.	
Hazardous Decomposition Products:	May release hazardous gas.	



Safety Data Sheet

SULFUR DIOXIDE

Section 11 - Toxicological Information				
Eye Effects (rabbit):		Mild (6 ppm/4H/32D)	Acute Inhalation Effects	LC50=2520 ppm (1H0
			(rat):	
Skin Effects (rabbit):		Not available Acute Oral Effects (rat):		Not available
Carcinogenicity:		IARC, NTP, and OSHA do not list Sulfur Dioxide as a carcinogen.		
Chronic	Prolonged or repeated exposure may cause inflammation of the lining of the nose, dry throat and			
Effects:	cough. Respiratory tract symptoms have been observed similar to changes observed in human chronic			
	bronchitis.			

Section 12 - Ecological Information		
Ecotoxicity:	Sulfur Dioxide is a poisonous gas commonly used as a fumigant pesticide. Concentrations above 1 ppm are believed to be injurious to plant foliage.	
Environmental Transport:	Airborne gas	
Environmental Degradation:	Rapid evaporation.	
Soil Absorption/Mobility:	Slight.	

Section 13 - Disposal Considerations			
Disposal:	Waste determinations typically consider	Container Cleaning	Follow applicable Federal, state
	Sodium Metabisulfite contaminated to be	and Disposal:	and local regulations.
	non-hazardous.		

Section 14 - Transport Information		
Shipping Name:	Sulfur Dioxide	
Shipping Symbols:	INHALATION HAZARD 2	
Hazard Class:	2.3	
Subsidiary Hazard:	8	
ID No. (Placard):	UN 1079	
Packing Group:	N/A	
Label:	Poison Gas	
EPA Reportable Quantity (RQ):	500 pounds	



NPRI

Safety Data Sheet SULFUR DIOXIDE

		1	Section 15	5 - Regulatory Information
EPA Regulati	ons:			
RCRA Hazardous Waste Classification (40 CFR 261):		D002. FIFRA:		Regulated when used as a pesticide
CERCLA Hazardous Substance (40 CFR 302.4):		Not Listed	SARA Title III:	Section 302/304/311/312 Extremely Hazardous Substance: sulfur dioxide, 500 TPQ Section 302/304 Emergency Planning and Notification: sulfur dioxide, 500 RQ
CERCLA Rep Quantity (RQ)		able Not Listed		
OSHA Regula	ations: Air	Contaminant ((29 CFR 19	910.1000): Listed without ceiling or skin designation.
OSHA Specifi	ically Reg	ulated Substai	nce:	: List of Highly Hazardous Chemicals TQ=1000 lb
Other Regulations:	FDA: Regulated when used as a food preservative. Proposition 65 (California): Listed as a reproductive toxicant. Canada: WHMIS A - Compressed gas D1A - Causing immediate and serious toxic effects E - Corrosive material CEPA Listed in Canadian Environmental Protection Administration Toxic Substance List. NPRI Listed in Canadian National Pollutant Release Inventory			
Canada				
WHMIS	A – Compressed Gas			
	D1A – Causing immediate and serious toxic effects			
	E – Corrosive material			
СЕРА	Listed in Canadian Environmental Protection Administration Toxic Substance List.			

Section 16 - Other Information			
This product is NSF certified to NSF/ANSI Standard 60 and is subject to maximum use limit (MUL) of 10			
mg/L for potable water dechlorination application			
Previous SDS issue date:	September 23, 2021		
Current SDS issue date:	September 28, 2021		
Reason for current revision	Format Update		

Listed in Canadian National Pollutant Release Inventory

The information herein is believed to be reliable. However, no warranty, expressed or implied, is made as to its accuracy or completeness and none is made as to the fitness of this material for any purpose. The manufacturer shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.



