

1. CHEMICAL PRODUCT AND COMP										
	FUR DIOXIDE									
Synonyms: Sulfurous acid anhydride, sulfur oxide, sulphur dioxide										
Intended use: Chemical feedstock, food preservative, fumigating pesticide.										
	Uses Advised Against: None identified.									
Company Identification	DPC Industries, Inc.									
	DPC Enterprises, LP									
	DXI Industries, Inc.									
	DX Terminals									
	PO Box 24600									
	Houston , TX 77229-4600									
Emergency										
CHEMTREC (USA)	(800) 424-9300									
24 hour Emergency Telephone No										
	www.dxgroup.com									
	www.axgroup.com									
2. Hazard identification of the produ	ct									
		Liquefied app								
Physical hazards	Gases under pressure; may explode if heated	Liquefied gas								
Health hazards	Toxicity if inhaled	Category 3								
	Skin corrosion/irritation	Category 1								
	Serious eye damage/eye irritation	Category 1								
	Causes serious eye damage	Category 1								
Label elements	· · · · · · · · · · · · · · · · · · ·									
Using the Toxicity Data listed in se	ction 11 and 12 the product is labeled as follows.									
Signal Word	Danger									
Signal Word Hazard Statements	Danger           Contains gas under pressure; may explode if hea eye damage. Causes serious eye damage. Toxi									
Hazard Statements	Contains gas under pressure; may explode if hea									
Hazard Statements Precautionary Statements	Contains gas under pressure; may explode if hea eye damage. Causes serious eye damage. Toxi	c if inhaled.								
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	First Aid Messures	
4.	First Aid Measures	
	General	Move victim to fresh air. Call 911 or emergency medical service. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Remove and isolate contaminated clothing and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet. Keep victim under observation. Effects of contact or inhalation may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
	Inhalation	Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one- way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
	Eyes	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
	Skin	Remove and isolate contaminated clothing and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet. Keep victim under observation.
	Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
	Most important sym	nptoms and effects, both acute and delayed
	Overview	Effects of contact or inhalation may be delayed. Direct contact can cause frostbite and burns. Contact with eyes can cause frostbite, burns and damage to the cornea. See section 2 for further details.
	Indication of immediate	Toxic if inhaled. Causes serious eye damage. Causes severe skin burns and eye damage.
	medical attention and special treatment needed	
5.	Fire-fighting measure	
	Recommended Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
	Unsuitable extinguishing media	Direct water spray. Direct water spray jet.
	Special hazards arising from the substance or mixture	Does not decompose but will react with water or steam to produce corrosive sulfurous acid. Do not breathe mist / vapors / spray.
	Advice for fire- fighters	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Stop flow of gas if safe to do so. Some may burn but none ignite readily. Vapors from liquefied gas are initially heavier than air and spread along ground. Some of these materials may react violently with water. Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices. Containers may explode when heated. Ruptured cylinders may rocket. TOXIC; may be fatal if inhaled, ingested or absorbed through skin. Vapors are extremely irritating and corrosive. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire will produce irritating, corrosive and/or toxic gases. Runoff from fire control may cause pollution. <b>ERG Guide No.</b> 125

	Accidental	Release M	eacures								
	pre r equip er pr	Personal cautions, protective ment and mergency ocedures onmental	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements or confined areas. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Isolate area until gas has dispersed.								
	pre	ecautions	hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.								
	ma contain	hods and aterial for ment and eaning up	available precautic Many ga	nergency Response Tele or no answer, refer to a onary measure, isolate s ses are heavier than air basements, tanks). Kee	ppropriate tele pill or leak area and will spread	phone number listed a. Keep unauthorized d along ground and d	d in Section 1. As a d personnel away. collect in low or cor	an immediate Stay upwind. nfined areas			
	Handling a	nd storage	•								
		utions for handling	Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container								
				•	essure relief d	evice to fail prematu	rely, venting the co	ontainer			
		litions for	contents Personne	el should be thoroughly t	rained. Mater	ials should be stored	in approved conta	iners. Firmly			
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	safe inclu incomp Exposure o	e storage, uding any atibilities controls an CAS 7446- al protectio	contents Personna secure c combust Use only fountains d persona No. 09-5	el should be thoroughly to ontainers upright to keep ibles. Avoid exposure to with adequate ventilation immediately available. al protection Exposure C Ingestion Sulfur dioxide	rained. Mater o them from fal o moisture, high n or respirator Control param Source OSHA ACGIH NIOSH rotective equi	ials should be stored ling or being knocke h temperatures, and y protection. Have s eters TWA 2 ppm (5 mg/m3 TWA: 0.25 ppm STE TWA 2 ppm (5 mg/m3	d in approved conta d over. Store away incompatible mate safety showers and Value 3) STEL 5 ppm (13 m EL: 2 ppm 3) STEL 5 ppm (13 m	ainers. Firmly y from rials. eyewash ng/m3)			
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•	safe inclu incomp Exposure o	e storage, uding any atibilities controls an CAS 7446- al protectio spiratory Eyes	contents Personna secure c combust Use only fountains d persona No. 09-5 n measure Use NIO concentr exposure Wear sat is sugges	el should be thoroughly to ontainers upright to keep ibles. Avoid exposure to with adequate ventilation immediately available. al protection Exposure C Ingestion Sulfur dioxide es, such as personal prosent SH/MSHA approved res ations exceed permissib e levels, use a self-conta fety glasses with side sh sted as a good workplac	rained. Mater o them from fal o moisture, high on or respirator <b>Control param</b> <b>Source</b> OSHA ACGIH NIOSH rotective equi pirator, followin le exposure lin ined breathing ields and/or sa e practice.	ials should be stored ling or being knocke h temperatures, and y protection. Have s eters TWA 2 ppm (5 mg/m3 TWA: 0.25 ppm STE TWA 2 ppm (5 mg/m3 pment ng manufacturer's re nits. For emergencie apparatus (SCBA). Ifety goggles to prote	I in approved conta d over. Store away incompatible mate safety showers and Value 3) STEL 5 ppm (13 m EL: 2 ppm 3) STEL 5 ppm (13 m commendations whe es or instances with ect the eyes. An ey	ainers. Firmly y from rials. eyewash ng/m3) ng/m3) nen n unknown e wash statio			
3.	safe inclu incomp Exposure of Individua Re	e storage, uding any atibilities controls an CAS 7446- al protectio spiratory Eyes Skin	contents Personna secure c combust Use only fountains d persona No. 09-5 n measure Use NIO concentr exposure Wear sat is sugge: Chemica gloves.	el should be thoroughly to ontainers upright to keep ibles. Avoid exposure to with adequate ventilation immediately available. al protection Exposure C Ingestion Sulfur dioxide es, such as personal p SH/MSHA approved res ations exceed permissib e levels, use a self-conta fety glasses with side sh sted as a good workplac I resistant clothing such Emergency eyewash sta	rained. Mater o them from fal o moisture, high on or respirator control param Source OSHA ACGIH NIOSH rotective equi pirator, followin le exposure lin ined breathing ields and/or sa e practice. as coveralls/a tion should be	ials should be stored ling or being knocke h temperatures, and y protection. Have s eters TWA 2 ppm (5 mg/m3 TWA 2 ppm (5 mg/m3 TWA 2 ppm (5 mg/m3 pment ng manufacturer's re nits. For emergencie apparatus (SCBA). Ifety goggles to prote pron boots should be in close proximity.	Value Value 3) STEL 5 ppm (13 m EL: 2 ppm 3) STEL 5 ppm (13 m commendations where a series of the eyes. An eye e worn. Chemical i	ainers. Firmly y from rials. eyewash ng/m3) ng/m3) nen n unknown e wash station mpervious			
	safe inclu incomp Exposure of Individua Re	e storage, uding any atibilities controls an CAS 7446- al protectio spiratory Eyes	contents Personna secure c combust Use only fountains d persona No. 09-5 n measure Use NIO concentr exposure Wear sat is sugges Chemica gloves.	el should be thoroughly to ontainers upright to keep ibles. Avoid exposure to with adequate ventilation immediately available. al protection Exposure C Ingestion Sulfur dioxide es, such as personal prosent SH/MSHA approved res ations exceed permissib e levels, use a self-conta fety glasses with side sh sted as a good workplac I resistant clothing such	rained. Mater o them from fal o moisture, high on or respirator Control param Source OSHA ACGIH NIOSH rotective equi pirator, followin le exposure lin ined breathing ields and/or sa e practice. as coveralls/ap tion should be here practicabl action. Eye wa	ials should be stored ling or being knocke h temperatures, and y protection. Have s eters TWA 2 ppm (5 mg/m3 TWA: 0.25 ppm STE TWA 2 ppm (5 mg/m3 pment ng manufacturer's re nits. For emergencie apparatus (SCBA). ifety goggles to prote pron boots should be in close proximity. le this should be ach ash and safety show	Value Value 3) STEL 5 ppm (13 m EL: 2 ppm 3) STEL 5 ppm (13 m commendations where and the eyes. An eye e worn. Chemical i ieved by the use of the eyes and the eyes of the eyes and	ainers. Firmly y from rials. eyewash ng/m3) ng/m3) nen n unknown e wash station mpervious f local exhaus lable when			

Appearance:	Colorless Gas or Liquid
Odor:	Strong Pungent Odor
Odor threshold:	Not Measured
pH:	Not Applicable
Melting point / freezing point:	-103 °F (-75 °C)
Initial boiling point and boiling range:	14 °F (-10 °C)
Flash Point:	Not Applicable
Evaporation rate (Ether = 1):	40.18 g/m2/s
Flammability (solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Lower Explosive Limit: Not Applicable
	Upper Explosive Limit: Not Applicable
Vapor pressure (mmHg):	2475 mmHg
Vapor Density:	2.2
Specific Gravity:	1.2 - 1.5
Solubility in Water:	Partial
Partition coefficient n-octanol/water (Log Kow):	Not Measured
Auto-ignition temperature (°C):	Not Measured
Decomposition temperature:	Not Measured
Viscosity (cSt):	Not Measured

#### 10. Stability and reactivity

Stability and reactivit	y
Reactivity	Hazardous Polymerization will not occur.
Chemical stability	Stable under normal circumstances.
Possibility of	None.
hazardous reactions	
Conditions to avoid	No data available
	Strong bases, halogens, metals, ammonia, oxidizing agents, chlorates, metal oxides, hydrides, azides, sodium carbide, and acrolein.
Hazardous decomposition products	Does not decompose but will react with water or steam to produce corrosive sulfurous acid.
	Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition

#### 11. Toxicological information

Ingredient	Results	Species	Dose	Exposure
Sulfur dioxide (7446-09-5)	LC50 Inhalation Gas.	Rat	2520 ppm	1 hour
(	LC50 Inhalation	Mouse	3000 ppm	30 minutes

			ALTH EFFECTS:						
Information on likely routes of	exposur		ALIIIEFFECIS.						
Eye contact			nage. Liquid exposure may cause	frostbite.					
Skin contac			id exposure may cause frostbite.						
Inhalatior	: May c		sibly severe), chemical burns, and	d pulmonary edema.					
Ingestion		es digestive tract b	-						
Signs and symptoms of exposure	of Conta	ct with this materia	al will cause burns to the skin, eye ath, headache, nausea, vomiting.						
Information on toxicological e	ffects								
Acute toxicity	Irritati Imme	diately Dangerous	roximately 0.5 ppm to Life or Health: 100.0 ppm.						
Carcinogenicity		onsidered to be a c	arcinogen by IARC, ACGIH, NTP	or OSHA.					
Reproductive Toxicity		ta available.							
Specific target organ systemi toxicity (single exposure)	):	vailable.							
Specific target organ systemi Toxicity (repeated exposure)	):	es damage to orga	Causes damage to organs (lungs) through prolonged or repeated exposure.						
Aspiration hazard	I: Due to	o the physical form	of the product it is not an aspirati	on hazard.					
Ecological information Toxicity- Very toxic to aquatic life		aquatic life with lo	ng lasting effects.	on hazard.					
Ecological information Toxicity- Very toxic to aquatic life	. Toxic to	aquatic life with lon Aquatic Eco	ng lasting effects. toxicity						
Ecological information	. Toxic to	aquatic life with lo	ng lasting effects. toxicity	ErC50 algae, mg/l					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5)	. Toxic to 96 hi	aquatic life with lor Aquatic Eco LC50 fish, mg/l lot Available	ng lasting effects. toxicity 48 hr EC50 crustacea, mg/l Not Available	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra	. Toxic to 96 hi bility:	aquatic life with lor Aquatic Eco LC50 fish, mg/l lot Available	ng lasting effects. toxicity 48 hr EC50 crustacea, mg/l	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degrad Bioaccumulative po	. Toxic to 96 hi bility: otential:	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data	ng lasting effects. toxicity 48 hr EC50 crustacea, mg/l Not Available available on the preparation itself	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative per Mobility Results of PBT ar	. Toxic to 96 hi 96 hi Mability: otential: ( in soil:	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available	ng lasting effects. toxicity 48 hr EC50 crustacea, mg/l Not Available available on the preparation itself	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative per Mobility Results of PBT ar	. Toxic to 96 hi dability: otential: / in soil: nd vPvB ssment:	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available	ng lasting effects. <b>toxicity</b> <b>48 hr EC50 crustacea, mg/l</b> Not Available available on the preparation itself e. e. itains no PBT/vPvB chemicals.	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative p Mobility Results of PBT at asse Other adverse	. Toxic to 96 hi dability: otential: / in soil: nd vPvB ssment:	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available This product con	ng lasting effects. <b>toxicity</b> <b>48 hr EC50 crustacea, mg/l</b> Not Available available on the preparation itself e. e. itains no PBT/vPvB chemicals.	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative po Mobility Results of PBT at asse Other adverse Disposal considerations	. Toxic to 96 hi dability: otential: / in soil: nd vPvB ssment: effects:	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available This product con No data available	ng lasting effects. <b>toxicity</b> <b>48 hr EC50 crustacea, mg/l</b> Not Available available on the preparation itself e. Itains no PBT/vPvB chemicals. e.	<b>ErC50 algae, mg/l</b> 500.00 (72 hr), Alga					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative p Mobility Results of PBT at asse Other adverse	. Toxic to 96 hi dability: otential: ( in soil: nd vPvB ssment: effects: Do not al disposed the Envir	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available This product con No data available low into drains or w of in accordance w onmental Protectio e obtained from the	ng lasting effects. <b>toxicity</b> <b>48 hr EC50 crustacea, mg/l</b> Not Available available on the preparation itself e. e. itains no PBT/vPvB chemicals.	ErC50 algae, mg/l 500.00 (72 hr), Alga d containers should be ontrol of Pollution Act and in this data sheet, advice					
Ecological information Toxicity- Very toxic to aquatic life Ingredient Sulfur dioxide - (7446-09-5) Persistence and degra Bioaccumulative po Mobility Results of PBT at asse Other adverse Disposal considerations	. Toxic to 96 hi 96 hi 0 hi	aquatic life with lon Aquatic Eco LC50 fish, mg/l lot Available There is no data Not Measured No data available This product con No data available low into drains or w of in accordance w onmental Protectio o obtained from the ns apply.	ng lasting effects. <b>toxicity</b> <b>48 hr EC50 crustacea, mg/l</b> Not Available available on the preparation itself e. itains no PBT/vPvB chemicals. e. vater courses. Wastes and emptie vith regulations made under the C n Act. Using information provided	ErC50 algae, mg/l 500.00 (72 hr), Alga d containers should be ontrol of Pollution Act and in this data sheet, advice ther the special waste					

14. Transport information												
UN numb	er: UN1079											
UN proper shipping nar		Sulfur dioxide										
Transport hazard class(e												
DOT (Domestic Surface												
DOT Proper Shipp Nar		kide										
DOT Hazard Cla DOT Lab	- ) ( - )											
UN / NA Numb	er: UN1079											
DOT Packing Gro	up: Not Applic	able										
CERCLA/DOT F	<b>RQ:</b> 500-lbs.											
Environmental hazar	ds: IMDG Mar	ine Pollut	ant: No									
Special precautions		able										
us	ser:											
15. Regulatory information												
	The regulatory da are represented.											
	Control Act) Inve			s product are i	isted on	Ine ISCA		Substan	ce			
WHMIS	D2B E											
Classification:												
OSHA REGULATORY		naterial is considered hazardous by the OSHA Hazard Communication Standard (2					d (29					
STATUS:	CFR 1910.1200)							-				
US EPA Tier II			Fire:	No Yes		nediate (Acute):		Yes				
Hazards:	Sudden Rel	Sudden Release of Pressure:			Delaye	ayed (Chronic): N			No			
	Reactive:         SARA 302 Extremely Hazardous Substance / RQs (lbs) :         SARA 311/312 Chemicals and RQs (lbs) (>0.1%) :         SARA 313 (TRI)						No					
							Yes / 500-lbs.					
SARA 311/312 (							No					
							No					
	OSHA PSM	(29 cfr 1		Yes (1000-lb	,							
		1	TSCA:	Sulfur Dioxid	е	<del>, ,</del>			1			
State N.J. RTK Su Regulations:	ubstances (>1%)	Listed	Penn R1	K Substances (	(>1%)	Listed		fornia op 65	Listed			

#### 16. Other information

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.