



## Safety Data Sheet

**Material Name: Sulfur mix in Inerts and Air****SDS ID: 00244829**

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

Sulfur mix in Inerts and Air

**Product Description**

Classification determined in accordance with Compressed Gas Association standards.

**Product Use**

Industrial and Specialty Gas Applications.

**Restrictions on Use**

None known.

**Details of the supplier of the safety data sheet**

MATHESON TRI-GAS, INC.

150 Allen Road, Suite 302

Basking Ridge, NJ 07920

General Information: 1-800-416-2505

Emergency #: 1-800-424-9300 (CHEMTREC)

Outside the US: 703-527-3887 (Call collect)

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Gases Under Pressure - Compressed gas

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

Germ Cell Mutagenicity - Category 2

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 ( central nervous system )

Specific Target Organ Toxicity - Single Exposure - Category 2 ( heart )

Specific Target Organ Toxicity - Repeated Exposure - Category 1 ( cardiovascular system , central nervous system , kidneys )

Simple Asphyxiant

**GHS Label Elements****Symbol(s)****Signal Word**

Danger

**Hazard Statement(s)**

Contains gas under pressure; may explode if heated.

Causes severe skin burns and eye damage.

Suspected of causing genetic defects.

May damage fertility or the unborn child.

Causes damage to organs.

May cause damage to organs.



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Causes damage to organs through prolonged or repeated exposure.

May displace oxygen and cause rapid suffocation.

**Precautionary Statement(s)****Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

**Response**

If exposed or concerned: Call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Storage**

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards**

The rapid release of compressed gas may cause frostbite. Concentration(s) of flammable component(s) will result in a non-flammable gas classification. Concentration(s) of toxic component(s) will not result in a toxic gas classification.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Component Name	Percent
7727-37-9	Nitrogen	0-100
7440-59-7	Helium	0-100
124-38-9	Carbon dioxide	0-100
7440-37-1	Argon	0-100
7446-09-5	Sulfur dioxide	0-50
7782-44-7	Oxygen	0-23.5
463-58-1	Carbonyl sulfide	0-10
74-93-1	Methyl mercaptan	0-3.9
7783-06-4	Hydrogen sulfide	0-3.5



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75-15-0	Carbon disulfide	0-1.4
75-18-3	Dimethyl sulfide	0-1

### Section 4 - FIRST AID MEASURES

**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin**

If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

**Eyes**

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

**Ingestion**

Ingestion is not a likely route of exposure under normal conditions of industrial use.

**Most Important Symptoms/Effects**

**Acute**

Frostbite, suffocation, severe skin burns and eye damage, central nervous system damage, heart damage

**Delayed**

mutagenic effects, reproductive effects, cardiovascular system damage, central nervous system damage, kidney damage

### Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**

regular dry chemical, carbon dioxide.

**Unsuitable Extinguishing Media**

Do not direct water at source of leak or safety devices; icing may occur.

**Special Hazards Arising from the Chemical**

Negligible fire hazard. Containers may rupture or explode if exposed to heat.

**Hazardous Combustion Products**

oxides of nitrogen, oxides of carbon, oxides of sulfur

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Do not direct water at source of leak or safety devices; icing may occur. Reduce vapors with water spray. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.



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**Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Do not touch or walk through spilled material. Reduce vapors with water spray. Keep unnecessary people away, isolate hazard area and deny entry. Remove sources of ignition. Ventilate closed spaces before entering.

**Environmental Precautions**

Avoid release to the environment.

**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not breathe gas. Do not eat, drink, or smoke when using this product.

**Conditions for Safe Storage, Including any Incompatibilities**

Store locked up.

Protect from sunlight. Store in a well-ventilated place.

Store and handle in accordance with all current regulations and standards: U.S. OSHA 29 CFR 1910.101.

**Incompatible Materials**

bases, oxidizing materials, reducing agents, metals

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<b>Nitrogen</b>	<b>7727-37-9</b>
ACGIH:	(See Appendix F: Minimal Oxygen Content )
<b>Helium</b>	<b>7440-59-7</b>
ACGIH:	(See Appendix F: Minimal Oxygen Content )
<b>Carbon dioxide</b>	<b>124-38-9</b>
ACGIH:	5000 ppm TWA
	30000 ppm STEL
NIOSH:	5000 ppm TWA ; 9000 mg/m3 TWA
	30000 ppm STEL ; 54000 mg/m3 STEL
	40000 ppm IDLH
Europe:	5000 ppm TWA ; 9000 mg/m3 TWA
OSHA (US):	5000 ppm TWA ; 9000 mg/m3 TWA
Mexico:	5000 ppm TWA VLE-PPT ; 9000 mg/m3 TWA VLE-PPT
	15000 ppm STEL [PPT-CT ] ; 27000 mg/m3 STEL [PPT-CT ]
<b>Argon</b>	<b>7440-37-1</b>



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ACGIH:	(See Appendix F: Minimal Oxygen Content )
<b>Sulfur dioxide</b>	<b>7446-09-5</b>
ACGIH:	0.25 ppm STEL
NIOSH:	2 ppm TWA ; 5 mg/m3 TWA
	5 ppm STEL ; 13 mg/m3 STEL
	100 ppm IDLH
OSHA (US):	5 ppm TWA ; 13 mg/m3 TWA
Mexico:	2 ppm TWA VLE-PPT ; 5 mg/m3 TWA VLE-PPT
	5 ppm STEL [PPT-CT ] ; 10 mg/m3 STEL [PPT-CT ]
<b>Carbonyl sulfide</b>	<b>463-58-1</b>
ACGIH:	5 ppm TWA
<b>Methyl mercaptan</b>	<b>74-93-1</b>
ACGIH:	0.5 ppm TWA
NIOSH:	0.5 ppm Ceiling 15 min ; 1 mg/m3 Ceiling 15 min
	150 ppm IDLH
OSHA (US):	10 ppm Ceiling ; 20 mg/m3 Ceiling
Mexico:	0.5 ppm TWA VLE-PPT ; 1 mg/m3 TWA VLE-PPT
<b>Hydrogen sulfide</b>	<b>7783-06-4</b>
ACGIH:	1 ppm TWA
	5 ppm STEL
NIOSH:	10 ppm Ceiling 10 min ; 15 mg/m3 Ceiling 10 min
	100 ppm IDLH
Europe:	5 ppm TWA ; 7 mg/m3 TWA
	10 ppm STEL ; 14 mg/m3 STEL
OSHA (US):	20 ppm Ceiling



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Mexico:	10 ppm TWA VLE-PPT ; 14 mg/m3 TWA VLE-PPT
	15 ppm STEL [PPT-CT ] ; 21 mg/m3 STEL [PPT-CT ]
<b>Carbon disulfide</b>	<b>75-15-0</b>
ACGIH:	1 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	1 ppm TWA ; 3 mg/m3 TWA
	10 ppm STEL ; 30 mg/m3 STEL
	Potential for dermal absorption
	500 ppm IDLH
Europe:	5 ppm TWA ; 15 mg/m3 TWA
	Possibility of significant uptake through the skin
OSHA (US):	20 ppm TWA
	30 ppm Ceiling
Mexico:	10 ppm TWA VLE-PPT ; 30 mg/m3 TWA VLE-PPT
	Skin - potential for cutaneous absorption
<b>Dimethyl sulfide</b>	<b>75-18-3</b>
ACGIH:	10 ppm TWA

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**Carbon disulfide (75-15-0)**

0.5 mg/g creatinine Medium: urine Time: end of shift Parameter: 2-Thioxothiazolidine-4-carboxylic acid (background, nonspecific )

**Engineering Controls**

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles with a faceshield. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

**Respiratory Protection**

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any supplied-air respirator



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with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

**Glove Recommendations**

For the gas: Protective gloves are not required, but recommended. For the liquid: Wear appropriate protective, cold insulating clothing.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	colorless gas	<b>Physical State</b>	gas
<b>Odor</b>	Not available	<b>Color</b>	colorless
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Non-flammable
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available
<b>Physical Form</b>	Compressed Gas	<b>Molecular Weight</b>	Not available

**Section 10 - STABILITY AND REACTIVITY****Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Avoid flames, sparks, and other sources of ignition. Containers may rupture or explode if exposed to heat.

**Incompatible Materials**

bases, oxidizing materials, metals, reducing agents

**Hazardous decomposition products**

Oxides of Carbon, Nitrogen and Sulfur



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### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Inhalation

Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, suffocation, tingling sensation, loss of coordination, convulsions, coma, changes in body temperature, changes in blood pressure, chest pain, irregular heartbeat, hallucinations, pain in extremities, tremors, visual disturbances, hearing loss, nerve damage, brain damage, lung congestion, death, reproductive effects, kidney damage, heart damage, internal bleeding

##### Skin Contact

Frostbite, skin irritation and burns

##### Eye Contact

Frostbite, eye irritation and burns

##### Ingestion

ingestion of a gas is unlikely.

##### Acute and Chronic Toxicity

##### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Sulfur dioxide (7446-09-5)

Inhalation LC50 Rat 2500 ppm 1 h

##### Carbonyl sulfide (463-58-1)

Inhalation LC50 Rat 1070 ppm 4 h

##### Methyl mercaptan (74-93-1)

Oral LD50 Rat 109.6 mg/kg

Dermal LD50 Rat >84.8 mg/kg

Inhalation LC50 Rat 675 ppm 4 h

##### Hydrogen sulfide (7783-06-4)

Inhalation LC50 Rat 700 mg/m<sup>3</sup> 4 h

##### Carbon disulfide (75-15-0)

Oral LD50 Rat 1200 mg/kg

Inhalation LC50 Rat 25 g/m<sup>3</sup> 2 h

##### Dimethyl sulfide (75-18-3)

Oral LD50 Rat 535 mg/kg

Dermal LD50 Rabbit >5000 mg/kg

Inhalation LC50 Rat 40250 ppm 4 h

##### Product Toxicity Data

##### Acute Toxicity Estimate

No data available.

##### Immediate Effects

Frostbite, suffocation, skin burns, eye damage, central nervous system damage, heart damage

##### Delayed Effects

mutagenic effects, reproductive effects, central nervous system damage, cardiovascular system damage, kidney damage

##### Irritation/Corrosivity Data

skin burns, eye damage

##### Respiratory Sensitization

No data available.

##### Dermal Sensitization

No data available.





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**Component Carcinogenicity**

<b>Sulfur dioxide</b>	<b>7446-09-5</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 54 [1992] (Group 3 (not classifiable))
<b>Carbonyl sulfide</b>	<b>463-58-1</b>
IARC:	Monograph 53 [1991] (related to Non-arsenical insecticides) (Group 2A (probably carcinogenic to humans))
OSHA:	Present (related to Non-arsenical insecticides)
<b>Carbon disulfide</b>	<b>75-15-0</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 53 [1991] (related to Non-arsenical insecticides) (Group 2A (probably carcinogenic to humans))
OSHA:	Present (related to Non-arsenical insecticides)

**Germ Cell Mutagenicity**

Suspected of causing genetic defects

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

May damage fertility or the unborn child

**Specific Target Organ Toxicity - Single Exposure**

central nervous system, heart

**Specific Target Organ Toxicity - Repeated Exposure**

cardiovascular system, central nervous system, kidneys

**Aspiration hazard**

Not expected to be an aspiration hazard

**Medical Conditions Aggravated by Exposure**

No data available.

**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**

<b>Hydrogen sulfide</b>	<b>7783-06-4</b>
Fish:	LC50 96 h <i>Lepomis macrochirus</i> 0.0448 mg/L [flow-through ]; LC50 96 h <i>Pimephales promelas</i> 0.016 mg/L [flow-through ]



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<b>Carbon disulfide</b>	<b>75-15-0</b>
Fish:	LC50 96 h Poecilia reticulata 3 - 5.8 mg/L [semi-static ]; LC50 96 h Poecilia reticulata 4 mg/L [static ]
Invertebrate:	EC50 48 h Daphnia magna 2.1 mg/L IUCLID
<b>Dimethyl sulfide</b>	<b>75-18-3</b>
Invertebrate:	EC50 48 h Daphnia pulex 23 mg/L IUCLID

**Persistence and Degradability**

No data available for the mixture.

**Bioaccumulative Potential**

No data available for the mixture.

**Mobility**

No data available for the mixture.

**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**

**Shipping Name:** COMPRESSED GAS, N.O.S. , ( Contains: highest concentration component , second highest concentration component )

**Hazard Class:** 2.2

**UN/NA #:** UN1956

**Required Label(s):** 2.2

**IMDG Information:**

**Shipping Name:** COMPRESSED GAS, N.O.S. , ( Contains: highest concentration component , second highest concentration component )

**Hazard Class:** 2.2

**UN#:** UN1956

**Required Label(s):** 2.2

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Carbon disulfide</b>	<b>75-15-0</b>
IBC Code:	Category Y

**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**



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This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Sulfur dioxide</b>	<b>7446-09-5</b>
SARA 302:	500 lb TPQ
OSHA (safety):	1000 lb TQ (Liquid )
SARA 304:	500 lb EPCRA RQ
<b>Carbonyl sulfide</b>	<b>463-58-1</b>
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
<b>Methyl mercaptan</b>	<b>74-93-1</b>
SARA 302:	500 lb TPQ
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
TSCA 12b:	Section 4 , 1 % de minimus concentration
OSHA (safety):	5000 lb TQ
SARA 304:	100 lb EPCRA RQ
<b>Hydrogen sulfide</b>	<b>7783-06-4</b>
SARA 302:	500 lb TPQ
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
OSHA (safety):	1500 lb TQ
SARA 304:	100 lb EPCRA RQ
<b>Carbon disulfide</b>	<b>75-15-0</b>
SARA 302:	10000 lb TPQ
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
SARA 304:	100 lb EPCRA RQ



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**Material Name: Sulfur mix in Inerts and Air****SDS ID: 00244829****SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories**

Gas Under Pressure; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Germ Cell Mutagenicity; Simple Asphyxiant

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
<b>Nitrogen</b>	<b>7727-37-9</b>	No	Yes	Yes	Yes	Yes
<b>Helium</b>	<b>7440-59-7</b>	No	Yes	Yes	Yes	Yes
<b>Carbon dioxide</b>	<b>124-38-9</b>	Yes	Yes	Yes	Yes	Yes
<b>Argon</b>	<b>7440-37-1</b>	No	Yes	Yes	Yes	Yes
<b>Sulfur dioxide</b>	<b>7446-09-5</b>	Yes	Yes	Yes	Yes	Yes
<b>Oxygen</b>	<b>7782-44-7</b>	No	Yes	No	Yes	Yes
<b>Carbonyl sulfide</b>	<b>463-58-1</b>	No	Yes	No	Yes	Yes
<b>Methyl mercaptan</b>	<b>74-93-1</b>	Yes	Yes	Yes	Yes	Yes
<b>Hydrogen sulfide</b>	<b>7783-06-4</b>	Yes	Yes	Yes	Yes	Yes
<b>Carbon disulfide</b>	<b>75-15-0</b>	Yes	Yes	Yes	Yes	Yes
<b>Dimethyl sulfide</b>	<b>75-18-3</b>	No	Yes	No	Yes	Yes

**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

<b>Sulfur dioxide</b>	<b>7446-09-5</b>
Repro/Dev. Tox	developmental toxicity , 7/29/2011
<b>Carbon disulfide</b>	<b>75-15-0</b>
Repro/Dev. Tox	developmental toxicity , 7/1/1989
	male reproductive toxicity , 7/1/89
	female reproductive toxicity , initial date 7/1/89

**Canada Regulations****Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL



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<b>Carbon dioxide</b>	<b>124-38-9</b>
	1 %
<b>Sulfur dioxide</b>	<b>7446-09-5</b>
	1 %
<b>Carbonyl sulfide</b>	<b>463-58-1</b>
	1 %
<b>Methyl mercaptan</b>	<b>74-93-1</b>
	1 %
<b>Hydrogen sulfide</b>	<b>7783-06-4</b>
	1 %
<b>Carbon disulfide</b>	<b>75-15-0</b>
	0.1 %

**Component Analysis - Inventory**

**Nitrogen (7727-37-9)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Helium (7440-59-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Carbon dioxide (124-38-9)**

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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Argon (7440-37-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Sulfur dioxide (7446-09-5)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Oxygen (7782-44-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Carbonyl sulfide (463-58-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI -	KR KECI -	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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							Annex 1	Annex 2						
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No

**Methyl mercaptan (74-93-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes

**Hydrogen sulfide (7783-06-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Carbon disulfide (75-15-0)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No

**Dimethyl sulfide (75-18-3)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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### Safety Data Sheet

**Material Name: Sulfur mix in Inerts and Air**

**SDS ID: 00244829**

Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
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**Section 16 - OTHER INFORMATION**

**NFPA Ratings**

Health: 3 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

New SDS: 08/25/2016

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

**Other Information**

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