**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Material Name:** SILANE

**Manufacturer Information**

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)

**Chemical Family**

hydrides

**Synonyms**

MTG MSDS 78; MONOSILANE (SiH4); SILICANE; SILICON HYDRIDE (SiH4); SILICON TETRAHYDRIDE; SILICON HYDRIDE; MONOSILANE; STCC 4920168; UN 2203; H4Si; RTECS: VV1400000

**Product Use**

industrial

**Usage Restrictions**

None known.

**Section 2 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Color: colorless  
Physical Form: gas  
Odor: unpleasant odor  
Health Hazards: respiratory tract irritation, skin irritation, eye irritation
Safety Data Sheet

Material Name: SILANE

Physical Hazards: May explode on contact with water. Flammable gas. May cause flash fire. Extremely flammable. May ignite spontaneously on exposure to air.

POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: irritation, nausea, headache

Long Term: lung damage

Skin

Short Term: irritation, blisters

Long Term: same as effects reported in short term exposure

Eye

Short Term: irritation, blurred vision

Long Term: same as effects reported in short term exposure

Ingestion

Short Term: frostbite

Long Term: no information is available

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7803-62-5</td>
<td>SILANE</td>
<td>100.0</td>
</tr>
</tbody>
</table>

*** Section 4 - FIRST AID MEASURES***

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.
Safety Data Sheet

Material Name: SILANE

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

Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion

If a large amount is swallowed, get medical attention.

*** Section 5 - FIRE FIGHTING MEASURES ***

See Section 9 for Flammability Properties

NFPA Ratings: Health: 2 Fire: 4 Reactivity: 3

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

Flammable Properties

Severe fire hazard. May ignite on exposure to air. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back.

Extinguishing Media

- carbon dioxide, regular dry chemical
- Large fires: Use regular foam or flood with fine water spray.

Unsuitable Extinguishing Media

Do not use halogenated extinguishing agents.

Protective Equipment and Precautions for Firefighters

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

**Material Name:** SILANE  
**SDS ID:** MAT20590

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. 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. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Stop leak if possible without personal risk. Let burn unless leak can be stopped immediately. For smaller tanks or cylinders, extinguish and isolate from other flammables. Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Evacuate if fire gets out of control or containers are directly exposed to fire. Evacuation radius: 500 meters (1/3 mile). Consider downwind evacuation if material is leaking.

**Thermal Decomposition Products**

Combustion: silicon, hydrogen

***Section 6 - ACCIDENTAL RELEASE MEASURES***

**Occupational spill/release**


***Section 7 - HANDLING AND STORAGE***

**Storage Procedures**

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

**Component Analysis**

SILANE (7803-62-5)

ACGIH: 5 ppm TWA

OSHA (vacated): 5 ppm TWA; 7 mg/m3 TWA

NIOSH: 5 ppm TWA; 7 mg/m3 TWA

**Component Biological Limit Values**

There are no biological limit values for any of this product's components.

**Ventilation**

Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes/Face**

Wear helmet with full face shield and fire-proof hood to prevent any possibility of burns if in contact with this substance.

**Protective Clothing**

Wear appropriate chemical resistant clothing.

**Glove Recommendations**

Wear fire-resistant gloves.

**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 with a full facepiece that is operated in a 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.
Safety Data Sheet

Material Name: SILANE

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator 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.

*** Section 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Gas</th>
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</thead>
<tbody>
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<tr>
<td>Flash Point:</td>
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</tr>
<tr>
<td>Evaporation Rate:</td>
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<tr>
<td>UEL:</td>
<td>100 %</td>
</tr>
<tr>
<td>Vapor Density (air = 1):</td>
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<tr>
<td>Water Solubility:</td>
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<tr>
<td>Auto Ignition:</td>
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<tr>
<td>Volatility:</td>
<td>100 %</td>
</tr>
<tr>
<td>Molecular Formula:</td>
<td>SI-H4</td>
</tr>
</tbody>
</table>

Solvent Solubility

Insoluble: ethanol, benzene, ether, chloroform, silicocloroform, silicon tetrachloride

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

Chemical Stability

May ignite on exposure to air.

Conditions to Avoid

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

Materials to Avoid
metal salts, bases, halogens, oxidizing materials

Combustion: silicon, hydrogen

Possibility of Hazardous Reactions
Will not polymerize.

*** Section 11 - TOXICOLOGICAL INFORMATION ***

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

SILANE (7803-62-5)

Inhalation LC50 Rat 9600 ppm 4 h

Acute Toxicity Level
SILANE (7803-62-5)
Slightly Toxic: Inhalation

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, OSHA or DFG.

Irritation
No animal testing data available for skin or eyes.

Local Effects
SILANE (7803-62-5)
Irritant: Inhalation, skin, eye

Medical Conditions Aggravated by Exposure
respiratory disorders
Safety Data Sheet

Material Name: SILANE

Mutagenic

Both negative and positive results found with E. coli and S. typhimurium, with and without activation; no human data available.

Reproductive Effects

No data available.

*** Section 12 - ECOLOGICAL INFORMATION***

Component Analysis - Aquatic Toxicity

No LOI ecotoxicity data are available for this product's components.

*** Section 13 - DISPOSAL CONSIDERATIONS***

Disposal Methods

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

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: Silane

UN/NA #: UN2203  Hazard Class: 2.1

Required Label(s): 2.1

TDG Information

Shipping Name: Silane, compressed

UN #: UN2203  Hazard Class: 2.1

Required Label(s): 2.1
**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA 311/312**

Acute Health: Yes  Chronic Health: No  Fire: Yes  Pressure: Yes  Reactive: Yes

**U.S. State Regulations**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
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</thead>
<tbody>
<tr>
<td>SILANE</td>
<td>7803-62-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not regulated under California Proposition 65

**Canada WHMIS**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List

SILANE (7803-62-5)

1%

**Component Analysis - Inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>US</th>
<th>CA</th>
<th>EU</th>
<th>AU</th>
<th>PH</th>
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<th>KR</th>
<th>CN</th>
<th>NZ</th>
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</thead>
<tbody>
<tr>
<td>SILANE</td>
<td>7803-62-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; 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; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Matheson Tri-Gas, Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty or merchantability or fitness for use. Matheson Tri-Gas, Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

End of Sheet MAT20590
Safety Data Sheet

Material Name: ARGON, COMPRESSED

*** Section 1 - PRODUCT AND COMPANY IDENTIFICATION ***

Material Name: ARGON, COMPRESSED

Manufacturer Information
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)

Chemical Family
non-metallic

Synonyms
MTG MSDS 5; ARGON; UN 1006; AR; RTECS: CF2300000

Product Use
industrial

Usage Restrictions
none known

*** Section 2 - HAZARDS IDENTIFICATION ***

EMERGENCY OVERVIEW

Color: colorless

Physical Form: gas

Odor: odorless

Health Hazards: difficulty breathing

Physical Hazards: Containers may rupture or explode if exposed to heat.
Safety Data Sheet

Material Name: ARGON, COMPRESSED

POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma

Long Term: no information is available

Skin

Short Term: frostbite

Long Term: no information is available

Eye

Short Term: frostbite, blurred vision

Long Term: no information is available

Ingestion

Short Term: ingestion of a gas is unlikely

Long Term: ingestion of a gas is unlikely

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>Percent</th>
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<tbody>
<tr>
<td>7440-37-1</td>
<td>ARGON, COMPRESSED</td>
<td>100.0</td>
</tr>
</tbody>
</table>

*** 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

Wash exposed skin with soap and water.
Safety Data Sheet

Material Name: ARGON, COMPRESSED

Eyes
Flush eyes with plenty of water.

Ingestion
If a large amount is swallowed, get medical attention.

Note to Physicians
For inhalation, consider oxygen.

*** Section 5 - FIRE FIGHTING MEASURES***

See Section 9 for Flammability Properties

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

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

Flammable Properties
Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.

Extinguishing Media
Use extinguishing agents appropriate for surrounding fire.
Large fires: Use water spray to keep containers cool.

Unsuitable Extinguishing Media
None known.

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

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. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).
Safety Data Sheet

Material Name: ARGON, COMPRESSED

*** Section 6 - ACCIDENTAL RELEASE MEASURES ***

Occupational spill/release

Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

*** Section 7 - HANDLING AND STORAGE ***

Handling Procedures

Avoid breathing gas. Use only with adequate ventilation.

Storage Procedures


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

Component Analysis

ACGIH, OSHA and NIOSH have not developed exposure limits for any of this product's components.

Component Biological Limit Values

There are no biological limit values for any of this product's components.

Ventilation

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

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required, but recommended.

Protective Clothing

Protective clothing is not required.

Glove Recommendations

Wear appropriate chemical resistant gloves.
Safety Data Sheet

Material Name: ARGON, COMPRESSED  
SDS ID: MAT01860

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.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator 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.

*** Section 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Gas</th>
<th>Appearance:</th>
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<tr>
<td>Color:</td>
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<td>odorless</td>
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</tr>
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<td>Taste:</td>
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<td>pH:</td>
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<td>Decomposition:</td>
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<td>Vapor Pressure:</td>
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<td>Density:</td>
<td>1.784 g/L @ 0 °C</td>
<td>Water Solubility:</td>
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<td>Log KOW:</td>
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<td>Coeff. Water/Oil Dist:</td>
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<td>Auto Ignition:</td>
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<td>Viscosity:</td>
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<tr>
<td>Molecular Weight:</td>
<td>39.948</td>
<td>Molecular Formula:</td>
<td>Ar</td>
</tr>
</tbody>
</table>

Solvent Solubility

Soluble: organic solvents

Page 5 of 9  
Issue Date: 09/12/2011  Revision: 1.0200  Print Date: 12/14/2011
Safety Data Sheet

Material Name: ARGON, COMPRESSED

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

Chemical Stability
Stable at normal temperatures and pressure.

Conditions to Avoid
Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

Materials to Avoid
No data available.

Decomposition Products
No data available.

Possibility of Hazardous Reactions
Will not polymerize.

*** Section 11 - TOXICOLOGICAL INFORMATION ***

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and no selected endpoints have been identified.

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, OSHA or DFG.

Irritation
No animal testing data available for skin or eyes.

Medical Conditions Aggravated by Exposure
None known.

Tumorigenic
No data available.

Mutagenic
No data available.
Safety Data Sheet

Material Name: ARGON, COMPRESSED

Reproductive Effects

No data available.

*** Section 12 - ECOLOGICAL INFORMATION***

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

*** 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: Argon, compressed

UN/NA #: UN1006 Hazard Class: 2.2

Required Label(s): 2.2

TDG Information

Shipping Name: Argon, compressed

UN #: UN1006 Hazard Class: 2.2

Required Label(s): 2.2

*** Section 15 - REGULATORY INFORMATION***

U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.
Safety Data Sheet

Material Name: ARGON, COMPRESSED

SARA 311/312

Acute Health: Yes  Chronic Health: No  Fire: No  Pressure: Yes  Reactive: No

U.S. State Regulations

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
<td>ARGON, COMPRESSED</td>
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<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not regulated under California Proposition 65

Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>US</th>
<th>CA</th>
<th>EU</th>
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<th>PH</th>
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<th>KR</th>
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<tbody>
<tr>
<td>ARGON, COMPRESSED</td>
<td>7440-37-1</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*** Section 16 - OTHER INFORMATION***

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; 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; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States
Safety Data Sheet

Material Name: ARGON, COMPRESSED

Other Information

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End of Sheet MAT01860