

Material Name C25 - 75% Argon, 25% Carbon Dioxide

* * *Section 1 - IDENTIFICATION* * *

Product Identifier: C25 - 75% Argon, 25% Carbon Dioxide

Recommended Use

Industrial and Specialty Gas Applications

Restrictions on Use

None known.

Manufacturer Information

WESTERN INTERNATIONAL GAS & CYL. INC. General Information: 1-979-413-2100

7173 Hwy 159E P.O. Box 668

Bellville, TX 77418

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

SDS ID: 00244566

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

* * *Section 2 - HAZARDS IDENTIFICATION* * *

Classification in accordance with 29 CFR 1910.1200

Gas under pressure, Compressed gas

Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

WARNING

Hazard Statement(s)

Contains gas under pressure; may explode if heated May cause drowsiness and dizziness

May displace oxygen and cause rapid suffocation.

Precautionary Statement(s)

Prevention

Avoid breathing gas. Use only outdoors or in a well-ventilated area.

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

SDS ID: 00244566

Material Name C25 - 75% Argon, 25% Carbon Dioxide

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

May cause frostbite upon sudden release of compressed gas.

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

CAS	Component	Percent
7440-37-1	Argon	75
124-38-9	Carbon dioxide	25

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

Description of Necessary 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

If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute

suffocation, frostbite, central nervous system depression

Delayed

No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment

For inhalation, consider oxygen.

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

Suitable Extinguishing Media

carbon dioxide, regular dry chemical

Large fires: Use water spray, fog or regular foam.

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Combustion: oxides of carbon

Material Name C25 - 75% Argon, 25% Carbon Dioxide

Fire Fighting Measures

Use extinguishing agents appropriate for surrounding fire. 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 tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Do not get water directly on material. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SDS ID: 00244566

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.

Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Do not touch or walk through spilled material. Use water spray to reduce vapors or divert vapor cloud drift. Do not direct water at spill or source of leak. If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Ventilate closed spaces before entering. Stay upwind and keep out of low areas.

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

Precautions for Safe Handling

Avoid breathing gas. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store in a well-ventilated area. Keep container tightly closed. Protect from sunlight. Store locked up. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

Incompatibilities combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases

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

Component Exposure Limits

Argon (7440-37-1)

ACGIH: Simple asphyxiant (See Appendix F: Minimal Oxygen Content)

Carbon dioxide (124-38-9)

ACGIH: 5000 ppm TWA

30000 ppm STEL

Europe: 5000 ppm TWA; 9000 mg/m3 TWA
OSHA (Final): 5000 ppm TWA; 9000 mg/m3 TWA
OSHA (Vacated): 10000 ppm TWA; 18000 mg/m3 TWA

30000 ppm STEL; 54000 mg/m3 STEL

NIOSH: 5000 ppm TWA; 9000 mg/m3 TWA

30000 ppm STEL; 54000 mg/m3 STEL

Component Biological Limit Values

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

Appropriate Engineering Controls

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

Material Name C25 - 75% Argon, 25% Carbon Dioxide

Individual Protection Measures, such as Personal Protective Equipment Eyes/Face Protection

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

SDS ID: 00244566

Skin Protection

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

Glove Recommendations

Wear insulated 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.

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* * *

Physical State: Gas Appearance: Colorless gas

Color:colorlessPhysical Form:compressed gasOdor:odorlessOdor Threshold:Not availablepH:Not availableMelting/Freezing Point:-189.2 °C

Boiling Point: -185.7 °C Flash Point: not flammable

Decomposition: Not available

LEL: Not available

UEL: Not available

Vapor Pressure: Not available Vapor Density (air = 1): 1.38

Density: 1.65 g/cm3 Specific Gravity (water=1): Not available Water Solubility: Not available Log KOW: Not available

 Auto Ignition:
 Not available
 Log KOW:
 Not available

 Viscosity:
 Not available

Critical Temperature: -122.4 °C Flammability (solid, gas): Not flammable

Other Property Information

No additional information is available.

Solvent Solubility

Soluble: alcohol, acetone, hydrocarbons, organic solvents

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

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

SDS ID: 00244566

Material Name C25 - 75% Argon, 25% Carbon Dioxide

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

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

Incompatible Materials

combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases

Hazardous Decomposition

Combustion: oxides of carbon

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

Carbon dioxide (124-38-9)

Inhalation: 200000 ppm/2 hour Inhalation Mouse LC50; 361 gm/m3/2 hour Inhalation Mouse LC50

Acute Toxicity Level

Carbon dioxide (124-38-9)

Non Toxic: inhalation

Information on Likely Routes of Exposure

Inhalation

sensitivity to light, changes in blood pressure, nausea, irregular heartbeat, headache, drowsiness, dizziness, disorientation, sleep disturbances, emotional disturbances, tingling sensation, tremors, muscle cramps, visual disturbances, suffocation, convulsions, unconsciousness, coma, difficulty breathing, blood disorders, vomiting, mood swings, loss of coordination

Ingestion

ingestion of a gas is unlikely

Skin Contact

blisters, frostbite

Eye Contact

irritation, blurred vision, frostbite

Immediate Effects

suffocation, frostbite, central nervous system depression

Delayed Effects

No information on significant adverse effects.

Medical Conditions Aggravated by Exposure

heart or cardiovascular disorders, respiratory disorders

Irritation/Corrosivity Data

No data available.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document

SDS ID: 00244566

Material Name C25 - 75% Argon, 25% Carbon Dioxide

Target Organs

Carbon dioxide (124-38-9)

central nervous system

Respiratory Sensitization

No test data available.

Dermal Sensitization

No data available.

Carcinogenicity

Component Carcinogenicity

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

Mutagenic Data

No data available.

RTECS Reproductive Effects

The components of this material have been reviewed, and RTECS publishes the following endpoints:

Carbon dioxide (124-38-9)

55 pph Inhalation Mouse TCLo (2 hour, 3 day(s)); 55 pph Inhalation Mouse TCLo (4 hour, 6 day(s)); 2 pph Inhalation Mouse TCLo (8 hour, pregnant 10 day(s)); 13 pph Inhalation Rabbit TCLo (4 hour, pregnant 9-12 day(s)); 6 pph Inhalation Rat TCLo (24 hour, pregnant 10 day(s)); 6 pph Inhalation Rat TCLo (24 hour, pregnant 10 day(s))

Tumorigenic Data

No data available.

Specific Target Organ Toxicity - Single Exposure

central nervous system

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

Not applicable.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Component Analysis - Aquatic Toxicity

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

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

* * *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.

SDS ID: 00244566

Material Name C25 - 75% Argon, 25% Carbon Dioxide

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information

Shipping Name: Compressed gas, n.o.s. (Contains: Argon, Carbon dioxide)

UN/NA #: UN1956 Hazard Class: 2.2

Required Label(s): 2.2

IMDG Information

Shipping Name: Compressed gas, n.o.s. (Contains: Argon, Carbon dioxide)

UN #: UN1956 Hazard Class: 2.2

Required Label(s): 2.2

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

U.S. Federal Regulations

None of this products 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 Hazardous Categories

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:

Component	CAS	CA	MA	MN	NJ	PA
Argon	7440-37-1	No	Yes	Yes	Yes	Yes
Carbon dioxide	124-38-9	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Argon	7440-37-1	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Carbon dioxide	124-38-9	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0

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

Page 7 of 8 Issue Date 08/14/14 Revision 1.0000 Print Date: 08/14/14

SDS ID: 00244566

Material Name C25 - 75% Argon, 25% Carbon Dioxide

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

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