

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: ARGON / CARBON DIOXIDE

Recommended Use of the Chemical and Restriction on Use: Industrial use (welding)

Details of Manufacturer or Importer:

Bromic Group
1 Suttor Street
Silverwater NSW 2128

Phone Number: 02 9748 3900

Emergency telephone number: 1300 276 642

2 . HAZARDS IDENTIFICATION

Hazardous Nature:



gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.

Label Elements

Signal Word Warning

Hazard Statements

H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

P410+P403 Protect from sunlight. Store in a well-ventilated place.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below.

Hazardous Components:

7440-37-1	argon	Press. Gas, H281	>86%
124-38-9	carbon dioxide	Press. Gas, H280	<14%

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact: Not expected to present a significant hazard.

Eye Contact: Not expected to present a significant hazard.

Ingestion: Ingestion is not considered a potential route of exposure.

Information for Doctor

Symptoms Caused by Exposure:

High concentrations may cause asphyxiation. Symptoms may include loss of consciousness. Victim may not be aware of asphyxiation.

Low concentrations of CO₂ cause increased respiration and headache.

High concentrations of CO₂ cause rapid respiratory failure. Symptoms are headache, nausea, vomiting and loss of consciousness.

Printing date 06.06.2014

Revision: 06.06.2014

Product Name: ARGON / CARBON DIOXIDE

(Contd. of page 1)

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Use water spray to cool fire exposed containers.

Prevent it from accessing sewage, basements, excavations and places where accumulation can be dangerous.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so. Let it evaporate. Ensure adequate ventilation.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid inhalation of vapours. Use only outdoors or in a well-ventilated area.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Only experienced and properly instructed persons should handle gases under pressure.

Open slowly the valve in order to avoid pressure shot. Do not allow backfeed into the container. Avoid the backfeed of water. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Close container valve after each use and when empty, even if still connected to equipment. Do not attempt to transfer gases from one cylinder/container to another. Do not use direct flame or electrical heating devices to raise the pressure of a container.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Do not smoke while handling product.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Do not expose to the sun or temperatures exceeding 50 °C. Keep containers in upright position. Protect from heat, sparks, open flames and other sources of ignition. Keep away from combustible materials. Containers' valve guards or caps should be in place. Check periodically for damage or leaks.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

7440-37-1 argon

NES Asphyxiant

124-38-9 carbon dioxide

NES STEL: 54000 mg/m³, 30000 ppm
TWA: 9000 mg/m³, 5000 ppm

(Contd. on page 3)

Printing date 06.06.2014

Revision: 06.06.2014

Product Name: ARGON / CARBON DIOXIDE

(Contd. of page 2)

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Oxygen gas detectors should be used when asphyxiating gases may be released.

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

Personal Protective Equipment (PPE):**Respiratory Protection:**

Wear Safe Work Australia approved self-contained breathing apparatus in case of insufficient ventilation or leaks. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Safety leather gloves, protective clothing and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES**Appearance:**

Form:	Gaseous
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Odour threshold is subjective and inadequate to warn for overexposure.
pH-Value:	Not applicable
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Not applicable
Auto-ignition Temperature:	
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Not applicable
Relative Density:	Heavier than air.
Vapour Density:	Not determined.
Evaporation Rate:	Not applicable.
Solubility in Water:	Low. It contains elements that reacts with water.

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: No hazardous reactions will occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Combustible materials.

Hazardous Decomposition Products: No hazardous decomposition products known.

(Contd. on page 4)

Printing date 06.06.2014

Revision: 06.06.2014

Product Name: ARGON / CARBON DIOXIDE

(Contd. of page 3)

11 . TOXICOLOGICAL INFORMATION**Toxicity:****Acute Health Effects****Inhalation:**

High concentrations may cause asphyxiation. Symptoms may include loss of consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO₂ cause increased respiration and headache. High concentrations of CO₂ cause rapid respiratory failure. Symptoms are headache, nausea, vomiting and loss of consciousness.

Skin: No irritating effect.

Eye: No irritating effect.

Ingestion: Ingestion is not considered a potential route of exposure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

13 . DISPOSAL CONSIDERATIONS**Disposal Methods and Containers:**

Do not discharge into any place where its accumulation could be dangerous.

Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION**UN Number**

1956

(Contd. on page 5)

Printing date 06.06.2014

Revision: 06.06.2014

Product Name: ARGON / CARBON DIOXIDE

(Contd. of page 4)

Proper Shipping Name	COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide)
Dangerous Goods Class	2.2
Packing Group:	Not applicable
Marine pollutant:	No
EMS Number:	F-C,S-V
Hazchem Code:	2TE
Special Provisions:	274, 292
Limited Quantities:	120 mL
Packagings & IBCs - Packing Instruction:	P200
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	Not applicable
Portable Tanks & Bulk Containers - Special Provisions:	Not applicable

15 . REGULATORY INFORMATION**Australian Inventory of Chemical Substances:**

7440-37-1 argon

124-38-9 carbon dioxide

16 . OTHER INFORMATION**Creation Date:** 06.06.2014**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Bromic Group makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.