

Specshield

Carbon Dioxide/Argon Range

PRODUCT: SPECSHIELD MSDS NR: 300-15-0076BOC(A) BOC VERSION: 1 DATE: 03/12/02 PAGE: 1/2

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

Product name	Specshield Carbon Dioxide/ Argon Range
Company identification	see heading and/or footer
Emergency phone Nos	see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/ Preparation	Preparation
Components/ Impurities	Contains Carbon Dioxide (EINECS No. 204-696-9) balance Argon (EINECS No. 231-147-0). Check the cylinder collar for the exact composition
EEC Nr (from EINECS)	Not applicable for preparations

3 HAZARDS IDENTIFICATION

Hazards identification	In high concentrations may cause asphyxiation Compressed gas Not classified as dangerous preparation
-------------------------------	--

4 FIRST AID MEASURES

Inhalation	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/ consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO ₂ cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Ingestion	Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards	Exposure to fire may cause containers to rupture/explode. Inform Fire Brigade. Non flammable.
Hazardous combustion products	None.
Suitable extinguishing media	All known extinguishants can be used.
Specific methods	If possible, stop flow of product. Move away from the container and cool with water from a protected position.
Special protective equipment for fire fighters	In confined space use self- contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Post warning notices. Ensure adequate air ventilation.
Environmental precautions	Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Clean up methods	Ventilate area.

7 HANDLING AND STORAGE

Handling and storage	Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place.
-----------------------------	--

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for country	UK: Carbon dioxide – LTEL: 5000ppm; STEL: 15000ppm (EH40/2000) In a confined space, displacement of air may cause the exposure limits to be exceeded before the oxygen level drops below 18%.
Personal protection	Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas	Heavier than air.
Solubility mg/l water	Not known.
Appearance/Colour	Colourless gas
Odour	No odour warning properties
Other data	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. Will displace oxygen when ventilation is at high point only.

10 STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions.
-------------------------------------	---------------------------------

11 TOXICOLOGICAL INFORMATION

General Carbon dioxide – In high concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.

12 ECOLOGICAL INFORMATION

General Carbon dioxide – When discharged in large quantities may contribute to the greenhouse effect.

13 DISPOSAL CONSIDERATIONS

General Discharge to atmosphere in large quantities should be avoided. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

UN Nr 1956
Class/Div 2.2
ADR/RID Classification code 1A
ADR/RID Hazard Nr 20
Labelling ADR Label 2.2: non flammable non toxic gas.
Other transport information Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and:
 - cylinder valve is closed and not leaking.
 - valve outlet cap nut or plug (where provided) is correctly fitted.
 - valve protection device (where provided) is correctly fitted
 - there is adequate ventilation.
 - compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548 Not applicable for preparations
EC Classification Not classified as dangerous preparation.
Labelling of cylinders - Symbols Label 2: non flammable non toxic gas.

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations.

Keep container in well ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Users of breathing apparatus must be trained.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Although this shielding gas alone does not exhibit toxic/harmful effects, the fumes generated from a welding process can be hazardous to health.

Always leak check cylinders when first collected, delivered or used, using an approved leak detection fluid.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

For further safety information please refer to "Safety Under Pressure" and "Safe handling, storage and transport of industrial gas cylinders", both of which are available from your local BOC Gases outlet.



A member of The BOC Group
 The stripe symbol and the word BOC are BOC Group trademarks.
 © The BOC Group 2003

For product and safety enquiries please phone

**In the United Kingdom:
 0800 111 333**

**BOC Gases
 Customer Service Centre
 Priestley Road, Worsley
 Manchester M28 2UT
 Fax: 0800 111 555**

**In the Republic of Ireland:
 Dublin 1850 333435**

**BOC Gases Ireland
 P.O. Box 201, Bluebell
 Dublin 12, Republic of Ireland
 Fax: 01 409 1801**

SFT/008036/APUK/0103/2M