

Stainshield

Light • Universal • Heavy

PRODUCT: STAINSHIELD LIGHT • UNIVERSAL • HEAVY MSDS NR : 300-10-0002 BOC VERSION : 1.04 DATE : 18 / 10 / 04 PAGE : 1/2
FORMERLY: HELISHIELD H1/H7/H101

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

Product name	Stainshield Light/Universal/Heavy.
Company identification	See end of page 2.
Emergency phone Nos	See end of page 2.

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation	Preparation.		
Components/Impurities	Contains the following components:		
Stainshield Light	85% He	1.5%	CO2 balance Ar.
Stainshield Universal	55% He	2%	CO2 balance Ar.
Stainshield Heavy	38% He	2%	CO2 balance Ar.
EEC Nr (from EINECS)	Not applicable for preparation.		

3 HAZARDS IDENTIFICATION

Hazards identification	In high concentrations may cause asphyxiation. Compressed gas.
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4 FIRST AID MEASURES

Inhalation	In high concentrations may cause asphyxiation and death. 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 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. Ensure adequate air ventilation. Post warning notices.
Environmental precautions	Try to stop release.
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 BOC if in doubt. Refer to BOC container handling instructions. Keep container below 50°C in a well ventilated place.
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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	UK: Carbon Dioxide – LTEL: 5000ppm STEL: 15000ppm (EH40/2002)
Personal protection	Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas	Lighter or similar to air.
Solubility mg/l water	Not known.
Appearance/Colour	Colourless gas.
Odour	None.

10 STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions.
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11 TOXICOLOGICAL INFORMATION

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

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

13 DISPOSAL CONSIDERATIONS

General Do not discharge into any place where its accumulation could be dangerous. Contact BOC if guidance is required.

14 TRANSPORT INFORMATION

Proper Shipping Name Compressed gas, N.O.S. (Helium, Argon)

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.
- 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 substance.

Labelling of cylinders - Symbols Label 2.2: 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 "Safe Under Pressure" and "Guidance for the carriage of gas cylinders on vehicles", both of which are available from your local BOC outlet.

Cylinder Size	Max Fill Pressure at 15°C Bar	Approx. dimensions incl. valve & guard where supplied (mm)	Approx. Gross cylinder weight (kg)	Manifolded cylinder pallets (MCP)	Max Fill Pressure at 15°C Bar	Approx. dimensions incl. valve and guard where supplied (mm)	Approx Gross Cylinder Weight (Kg)
X	230	140 X 940	19	WN (15 X N)	200	1290 X 1810 X 840	1500
L	230	230 X 1640	87				



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