

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND OF THE COMPANY UNDERTAKING

1.1 Identification

Fire extinguishers filled with Liquid Carbon Dioxide.

Product Name: London Security PLC Models 58013, 58008, 1550QE and 1520QE, sold under license and branded by any approved concessionaire, or may also be branded Nu-Swift, GFA, Hoyles, Asco, TVF, MK Fire, LW Safety, or any other subsidiary company.

1.2 Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHER. It should only be used for this purpose.

1.3 Supplier Company Identification

Name: Nu-Swift International Ltd.
 Address: Jubilee Way, Elland, West Yorkshire, HX5 9DY, United Kingdom.
 Prepared by: Nu-Swift Engineering Ltd.
 Phone: 00 44 (0) 1422 372 852.
 Date of issue: September, 2013.

1.4 Emergency telephone: 00 44 (0) 1422 372 852 .

2. HAZARD IDENTIFICATION

Product: Pressurised Carbon Dioxide Gas Fire Extinguisher.
 EU Classification: Non-flammable Gas.
 R Phrases: None .
 S Phrases: 23 Do not breathe gas.

2.1 Limit Values for Exposure

OSHA PEL: 5000 ppm, (9000 mg/m³)
 OSHA TWA : 5000 ppm, (9000 mg/m³)
 ACGIH TLV TWA : 30000 ppm, (54000 mg/m³)

IDLH (Immediately Dangerous to Life and Health): 50000 ppm , (90000 mg/m³)

This substance has not been listed as carcinogenic by National Toxicology Program, IARC, or OSHA.

As part of an industrial and personal safety policy, avoid unnecessary exposure to the chemical substance contained in this fire extinguisher.

2.2 Signs and Symptoms

High concentrations of compressed gas can cause asphyxiation.

Acute Exposure:

Eyes. Can produce chilling sensation and frostbite.
 Skin. Can produce chilling sensation and frostbite.

Inhalation:	High concentrations of compressed gas can cause asphyxiation, loss of mobility/consciousness, lightheadedness, giddiness, shortness of breath, muscular tremors, weakness, acrocyanosis, unconsciousness or death.
Ingestion:	Not an expected route of entry due to content being a gas at operating temperature.
Chronic over exposure:	High concentrations of compressed gas can cause asphyxiation, unconsciousness or death.
Environment:	Carbon Dioxide is a Global warming gas.

3. COMPOSITION / INFORMATION ON INGREDIENTS (Internal content only)

Chemical Name:	Carbon Dioxide.
CAS No.:	124-38-9
Chemical Formula:	CO ₂
EINECS Number:	204-696-9
REACH:	Listed in Annex IV/X of Regulation (EC) No 1907/2006 (REACH) exempted from registration.

(a) EINECS does not include synthetic polymers. (These are registered in EINECS under their building blocks, monomers). Refer: 67/548/EEC, article 13; 79/831/EC and 81/437/EC.

(b) EINECS does not include most naturally occurring raw materials. Refer: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

NOTE: Unless a component presents a severe hazard, it does not need to be considered in the MSDS if the concentration is less than 1 %. (According to Directive 1999/45/EC.)

4. FIRST AID MEASURES

Eye Contact: Immediately flush the affected area with tepid water for at least 15 minutes. Obtain medical assistance.

Skin Contact: Immediately soak thoroughly with tepid water for at least 15 minutes. Obtain medical assistance.

Inhalation: Remove to uncontaminated area, keep warm and rested and call a doctor.

Ingestion: Not an expected route of entry due to content being a gas at operating temperature.

5. FIRE-FIGHTING MEASURES

This is a fire extinguisher.

There are NO extinguishing media which must not be used for safety reasons.

Fire fighters should wear protective equipment appropriate for the fire conditions.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, refer section 8.
If the vapour cloud is significant evacuate the area.

Clean up: The content of the extinguisher will vapourise, refer section 13.

Carbon Dioxide is a Global Warming gas.

7. HANDLING AND STORAGE

7.1 Handling

Secure to prevent falling. Safety Pin should be in place to prevent accidental discharge.

7.2 Storage

Avoid corrosive atmospheres. Store at temperatures between -30°C and +60°C.
Extinguishers should be stored in original container, mounted on the wall bracket provided, or sited on a stand specifically designed for fire extinguishers.

7.3 Specific use

The intended or recommended use of this item is as a FIRE EXTINGUISHER.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values

None specific to the extinguisher. Refer section 2 for content guidelines.

8.2 Exposure controls

8.2.1 Occupational Exposure Controls

None specific to the extinguisher. Refer section 2 for content guidelines.

8.2.1.1 Respiratory protection

None specific to the extinguisher. Fire fighters should wear protective equipment appropriate for the fire conditions.

8.2.1.2 Hand protection

None specific to the extinguisher. Fire fighters should wear protective equipment appropriate for the fire conditions.

8.2.1.3 Eye protection

None specific to the extinguisher. Fire fighters should wear protective equipment appropriate for the fire conditions.

8.2.1.4 Skin protection

None specific to the extinguisher. Fire fighters should wear protective equipment appropriate for the fire conditions.

8.2.2 Environmental exposure controls

No special controls are needed. Fire fighters should wear protective equipment appropriate for the fire conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (Content only)

Appearance:	Colourless odourless gas.
Colour:	None.
Odour:	None.

9.2 Important health, safety, and environmental information (Content only)

PH:	Not determined.
Boiling point:	-78.5°C
Flash point:	None.
Flammability:	Not flammable.
Explosive properties:	Not explosive.
Oxidising properties:	Not an oxidiser.
Vapour Pressure @ 20.0°C:	57.3 bar
Relative Density (liquid):	1.03
Water solubility:	200mg/l
Fat solubility:	Not soluble.
Partition coefficient (octanol/water):	0.83 logPow
Viscosity:	Not applicable.
Vapour density:	1.52
Evaporation rate:	Not applicable.

9.3 Other information

Auto-Ignition temperature:	Does not ignite.
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10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

Extremely high temperatures may cause the valve safety device to activate and perform a controlled discharge of the content.

10.2 Materials to avoid

Stable under normal conditions of storage and use.

10.3 Hazardous decomposition products

Stable under normal conditions of storage and use. Hazardous polymerization will NOT occur.

11. TOXICOLOGICAL INFORMATION

None specific to the extinguisher.

High concentrations of Carbon Dioxide gas can cause asphyxiation, loss of mobility/consciousness, lightheadedness, giddiness, shortness of breath, muscular tremors, weakness, acrocyanosis, unconsciousness or death.

12. ECOLOGICAL INFORMATION

None specific to the extinguisher.

12.1 Ecotoxicity	Extinguisher content is a normal atmospheric gas.
12.2 Mobility	Extinguisher content is a normal atmospheric gas.
12.3 Persistence and degradability	Extinguisher content is a normal atmospheric gas.
12.4 Bio accumulative potential	Extinguisher content is a normal atmospheric gas.
12.5 Other adverse effects	
Ozone depletion potential:	None.
Photochemical ozone creation potential:	None.
Global warning potential:	Carbon Dioxide is a Global Warming gas.

13. DISPOSAL CONSIDERATIONS

No harm to the environment is expected from this extinguisher.

Dispose of in compliance with national, regional and local provisions that may be in force.

Carbon Dioxide is a Global Warming gas. Rapid discharge may cause localised frost damage.

14. TRANSPORT INFORMATION

Hazard Class or Division: Carbon Dioxide, Class 2.2, UN 1044.

Fire extinguishers fitted with protection against inadvertent discharge [*sealed safety pins*] are exempt from ADR regulations.

For additional transport Information, contact Nu-Swift International Ltd.

15. REGULATORY INFORMATION

Fire extinguishers are designed and manufactured in accordance with the Pressure Equipment Directive 97/23/EC and BS EN3.

EINECS Status: All components are included in EINECS Inventories or are exempt from listing.

EPA TSCA Status: All components are included in TSCA Inventories or are exempt from listing.

Canadian DSL: All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Refer to any other national measures that may be relevant.

16. OTHER INFORMATION

Data used to compile this data sheet for the extinguisher content is from Supplier Material Safety Data Sheet Carbon Dioxide, dated April, 2011.

(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

(4. Severe Hazard 3. Serious Hazard 2. Moderate Hazard. 1. Minimal Hazard)

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

(WHMIS) CANADIAN WORKPLACE HAZARDIOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated: A – Compressed Gas.

Format is from directive 2001/S8IEC.

EINECS data is from <http://ecb.jrc.it/existing-chemicals/>

Toxicological information added from the EINICS ESIS (Existing Substances Information System).

A rating under WHMIS has been added, following the Canadian guidelines.

17. DISCLAIMER

THE ABOVE INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. THIS REVISION SUPERCEDES ALL PREVIOUS VERSIONS. ALL INFORMATION IS BELIEVED TO BE CORRECT AT THE TIME OF ISSUE, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. LONDON SECURITY PLC OR ITS SUBSIDIARIES SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.