

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

1.1 Identification of the preparation

Fire extinguishers filled with ABC dry powder.

Product Name: London Security PLC Models 60XX, 6201, 6202, 6203, 6204, 1SPXP, 2SPXP, filled with Multra or Forex ABC dry powders, sold under license and branded by any approved concessionaire, or 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. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name: Mon-ammonium Phosphate
 Chemical Formula: $\text{NH}_4\text{H}_2\text{PO}_4$
 CAS No: 7722-76-1
 EINECS Number: 231-764-5
 Concentration Wt %: 35-95%
 Hazard identification: Refer Section 3

Ingredient Name: Ammonium Sulphate
 Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$
 CAS No: 7783-20-2
 EINECS Number: 231-984
 Concentration Wt %: 0-50%
 Hazard Identification: Refer Section 3

Ingredient Name: Talc
 Chemical Formula: $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$
 CAS No: 14807-96-6
 EINECS Number: 238-877-9
 Concentration Wt %: 3-7%
 Hazard Identification: Refer Section 3

Ingredient Name: Mica
 Chemical Formula: N/A
 CAS No: 12001-26-2
 EINECS Number: N/A
 REACH Pre-reg No: 05-2114564011-63-0000
 Concentration Wt %: 3-4%
 Hazard Identification: Refer Section 3

Ingredient Name: Silica white
 Chemical Formula: SiO₂
 CAS No: 7631-86-9
 EINECS Number: 231-545-4
 Concentration Wt %: 1-5%
 Hazard identification: Refer Section 3

Ingredient Name: Methyl Hydrogen Polysiloxane
 Chemical Formula: Mixture / preparation
 CAS No: 63148-57-2
 EINECS Number: 203-492-7
 Concentration Wt %: <1%
 Hazard identification: Refer Section 3

Ingredient Name: Pigment (Green, Blue, Pink, Yellow, Cream depending on product)
 Chemical Formula:
 CAS No.:
 EINECS Number:
 Concentration, Wt %: <0.04%
 Hazard identification: Refer Section 3

(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.)

3. HAZARD IDENTIFICATION

Product:	London Security PLC ABC Dry Powder Fire Extinguisher
EU Classification:	Harmful.
R Phrases: 22	Harmful if swallowed.
36/37/38	Irritating to eyes, respiratory system, and skin.
S Phrases: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Component:	Mon-ammonium Phosphate
EU Classification:	Harmful.
R Phrases: 22	Harmful if swallowed.
36/37/38	Irritating to eyes, respiratory system, and skin.
S Phrases: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36	Wear suitable protective clothing.
Component:	Ammonium Sulphate
EU Classification:	Irritant.
R Phrases: 36/37/38	Irritating to eyes, respiratory system, and skin.
S Phrases: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36	Wear suitable protective clothing.

3.1 Limit Values for Exposure

Nuisance dust limit:	
OSHA TWA :	15 mg/m ³
ACGIH TLV TWA :	10 mg/m ³

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, IARC, or OSHA.

As part of an industrial and personal hygiene policy, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

3.2 Signs and Symptoms

Acute Exposure:

Eye Contact:	Mildly irritating for short periods of time.
Skin Contact:	May be mildly irritating.
Inhalation:	Treat as a mineral dust irritant to the respiratory tract. Transient cough, shortness of breath.
Ingestion:	Not an expected route of entry.

Chronic over exposure:

Inhalation:	Chronic fibrosis of the lung, pneumoconiosis.
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Medical conditions generally aggravated by exposure: None known.

For environment: No data available.

4. FIRST AID MEASURES

Eye Contact: Wash with water for a minimum of 15 minutes. If Irritation persists seek medical attention.

Skin Contact: Wash affected area with soap and water. If Irritation persists seek medical attention.

Inhalation: Remove from exposure. If irritation persists seek medical attention.

Ingestion: If patient is conscious, give large amounts of water and induce vomiting. Seek medical help.

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, avoid inhalation, refer section 8.

Clean up: Sweep up and place in closed container for disposal, refer section 13.

NO harm to the environment is expected from an accidental release of this preparation.

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 3 for content guidelines.

8.2 Exposure controls

8.2.1 Occupational Exposure Controls

None specific to the extinguisher. Refer section 3 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 (Content only)**9.1 General Information**

Appearance:	Powder.
Colour:	Cream / yellow

9.2 Important health, safety, and environmental information

PH:	Not determined.
Boiling point:	Not applicable.
Flash point:	None.
Flammability:	Not flammable.
Explosive properties:	Not explosive.
Oxidising properties:	Not an oxidiser
Vapour Pressure:	Not applicable.
Relative Density:	Not applicable.
Water solubility:	Slight
Fat solubility:	Not soluble
Partition coefficient (octanol/water):	Not determined
Viscosity:	Not applicable
Vapour density:	Not applicable
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 powder to decompose forming Ammonia. In the case of fire the smell of ammonia is difficult to detect.

10.2 Materials to avoid

Stable under normal conditions of storage and use.

Avoid contact with strongly caustic materials.

10.3 Hazardous decomposition products

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

Ammonia and/or phosphorous oxides can be evolved at very high temperatures.

11. TOXICOLOGICAL INFORMATION

None specific to the extinguisher.

Content is treated as a nuisance dust.

Components:

Mon-ammonium Phosphate:

Material is irritating. Harmful if swallowed.

Ammonium Sulphate:

Toxicity Data: Oral (rat) LD50 2840 mg/kg.

Target Organs:

Lungs and gastrointestinal.

12. ECOLOGICAL INFORMATION

None specific to the extinguisher.

13. DISPOSAL CONSIDERATIONS

No harm to the environment is expected from this extinguisher.

Return to supplier or dispose of in compliance with national, regional and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: Nitrogen, 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 EINECS 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.