



## Safety Data Sheet • Inertech

*for use with*

### FSL Inert Clean Agent Gaseous Suppression Systems

**Product: IG-55**

#### **IDENTIFICATION FOR THE SUBSTANCE/PREPARATION AND COMPANY**

Product name	Inertech IG-55
Synonyms	IG-55
Chemical Formula	N <sub>2</sub> /Ar
Company Identification	Firetec Systems Ltd. Unit 6, The Business Centre Wokingham, Berkshire, RG41 2QZ E-mail: enquiry@firetec-systems.com
Emergency Phone Numbers	+44 (0)1118 989 7910

#### **COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Preparation	Fire extinguishing agent
Components/Impurities	Contains no components or impurities which will influence the classification of the product
CAS No.	N/A
EEC No.	N/A
Specifications IG-55	Gas Mixture of 50% - 52% Nitrogen (N <sub>2</sub> ) and 48% - 50% Argon (Ar) H <sub>2</sub> O<10ppm O <sub>2</sub> <10ppm in base components

#### **HAZARDS IDENTIFICATION**

Hazards Identification	In high concentrations may cause asphyxiation Compressed gas
------------------------	---

#### **FIRST AID MEASURES**

Inhalation	May cause asphyxiation at high concentrations. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to an uncontaminated area. Wearing self-contained breathing apparatus, keep victim warm and at rest. Seek medical assistance. Apply artificial respiration if breathing has stopped.
Skin/eye contact	Compressed gas directed at the skin can enter the body through small wounds or can even penetrate the skin, causing serious or fatal injuries. Seek medical advice immediately
Ingestion	Ingestion is not considered a potential route of exposure

Date: 01/05/14

Revision: A

Checked by: DW



### **FIRE FIGHTING MEASURES**

Specific Hazards	Exposure to fire may cause containers to rupture/explode. Call the Fire Department. Nonflammable
Hazardous combustion products	None
Suitable extinguishing media	All known extinguishants can be used
Specific methods	Cool with water from a protected position
Special protective equipment for fire fighters	In confined spaces use self-contained breathing apparatus

### **ACCIDENTAL RELEASE MEASURES**

Personal precautions	Evacuate area. Use self-contained breathing apparatus when entering area unless atmosphere is proved safe. Ensure adequate air ventilation.
Environmental precautions	No impact to the environment
Clean-up methods	Ventilate area

### **HANDLING AND STORAGE**

Handling and storage	Use only equipment, which is specified as suitable for this product, its' supply pressure and temperature. Contact your supplier if in doubt. Compressed gas cylinders are heavy and contain considerable stored energy. Use suitable equipment and handle with appropriate caution. Refer to suppliers. Keep containers below 50°C in a well-ventilated place.
----------------------	---

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Limit Value – ELV	No ELV specified, but atmosphere must have a minimum 18% free oxygen
Personal Protection	Ensure adequate air ventilation

### **PHYSICAL AND CHEMICAL PROPERTIES**

Relative density gas	Heavier than air
Relative density liquid	N/A
Vapour pressure 20°C	N/A
Solubility in water	Negligible
Appearance/colour	Colourless gas
Odour	No odour warning properties
Auto ignition temperature	N/A
Flammability range	Non flammable
Other data	Vapour is heavier than air. May accumulate in confined spaces, particularly at or below ground level



## **STABILITY AND REACTIVITY**

Stability and Reactivity Stable under normal conditions

## **TOXICOLOGICAL INFORMATION**

General Asphyxiant in high concentrations

## **ECOLOGICAL INFORMATION**

General No ecological damage is caused by this product. Nitrogen and Argon are natural components of air. Nitrogen constituting approximately 78% and Argon approximately 0.9% of the earth's atmosphere.

## **DISPOSAL CONSIDERATIONS**

General To atmosphere in well-ventilated area. Consider noise and pressure hazards. Do not discharge into any place where its' accumulation could be dangerous. Contact your supplier if guidance is required.

## **TRANSPORT INFORMATION**

UN No. 1956  
ADR/RID ITEM No. 1 2.1a  
IMDG/GGV Sea-class 2 UNI956, page 2124  
ADR/RID Hazard No. Not specified  
Labelling ADR Non-flammable non-toxic gas

## **REGULATORY INFORMATION**

Number in annex 1 of Dir. 67/548 Not included in Annex 1  
EC Classification Not classified as a dangerous substance  
EC Labelling (symbols R&S Phrases) – Symbols Compressed gas  
Risk Phrases Asphyxiate in high concentrations  
Safety Phrases Do not breathe the gas  
Keep containers in a well-ventilated place

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

Details in this document are believed to be correct at present. Whilst great care has been taken in the preparation of this information, no liability for injury, damage or non-compliance with any legislation or directive arising from its use can be accepted.

This sheet does not constitute or substitute for the users own assessment of workplace risk as required by other health and safety legislation.