### **INERTECH** <sup>™</sup> Gaseous Fire Suppression System



#### **IG-541 Safety Information**

Product: IG-541

IDENTIFICATION FOR THE SUBSTANCE/PREPARATION AND COMPANY

Product name Intertech IG-541

Synonyms IG-541

Chemical Formula N2/Ar/CO2

Company identification Firetec System Ltd.

> Unit 6, The Business Centre Wokingham, Berkshire, RG41 2QZ sales@firetec-systems.com

**Emergency Phone Number** +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

N/A No.

Nο. N/A

Specification IG-100 Gas Mixture with:

DS 33FSL Inertech Rev B - May 2023

50 Vol. % Nitrogen (N2), 42 Vol. % Argon (Ar), 8 Vol. % Carbon

dioxide (CO2)

HAZARD IDENTIFICATION

Hazard Identification In high concetrations 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.

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#### **IG-541 Safety Information**

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 is not considered a potential route of exposure. Ingestion

**FIRE FIGHTING MEASURES** 

Specific Hazards Exposure to fire may cause containers to rupture/explode. Call

the Fire Department. Nonflammable.

Hazardous combustion products None

All known extinguishants can be used Suitable extinguishing media

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

Ventilate area Clean-up methods

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.

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**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

N/A Vapour pressure 20°C

Solubility in water Colourless gas

Appearance/colour No odour warning properties

Oudor N/A

Non flammable Auto ignition temperature

Flammability range Vapour is heavier than air. May accumulate in confined spaces,

particularly at or below ground level

Other data

Stable under normal conditions

STABILITY AND REACTIVITY

Stability and Reactivity

Asphyxiant in high concentrations **TOXICOLOGICAL INFORMATION** 

General

General

No ecological damage is caused by this product. Nitrogen and **ECOLOGICAL INFORMATION** Argon are natural components of air. Nitrogen constituting

approximately 78% and Argon approximately 0.9% of the earth's

atmosphere.

**DISPOSAL CONSIDERATIONS** pressure hazards. Do not discharge into any place where its' accumulation could be dangerous. Contact your supplier if General

To atmosphere in well-ventilated area. Consider noise and

guidance is required.









#### **IG-541 Safety Information**

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 Compressed gas

Phrases) - Symbols

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.

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