



Safety Data Sheet • Inertech

for use with

FSL Inert Clean Agent Gaseous Suppression Systems

Product: IG-541

IDENTIFICATION FOR THE SUBSTANCE/PREPARATION AND COMPANY

Product name	Inertech IG-541
Synonyms	IG-541
Chemical Formula	N ₂ /Ar/CO ₂
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-541	Gas Mixture with: 50 Vol. % Nitrogen (N ₂) 42 Vol. % Argon (Ar) 8 Vol. % Carbon dioxide (CO ₂)

HAZARDS IDENTIFICATION

Hazards Identification	In high concentrations may cause asphyxiation Compressed gas
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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. Non-flammable.
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.
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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
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.