



IG-100 Safety Information

Product: IG-55

IDENTIFICATION FOR THE SUBSTANCE/PREPARATION AND COMPANY

Intertech IG-100 Product name

IG-100 **Synonyms**

Chemical Formula N2

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

No. N/A

No. N/A

DS 32FSL Inertech Rev B - May 2023

Gas of 100% Nitrogen (N2) Specification IG-100

H20<10ppm 02<10ppm in base component

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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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.

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

Ventilate area Clean-up methods

HANDLING AND STORAGE

Use only equipment, which is specified as suitable for Handling and storage

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 0.98 (air = 1)

N/A

Relative density liquid

N/A

Vapour pressure 20°C

Negligible

Solubility in water

Colourless gas

Appearance/colour

No odour warning properties

Oudor

N/A

Auto ignition temperature

Non flammable

Flammability range

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.

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TRANSPORT INFORMATION

1066 UN No.

ADR/RID ITEM No. 1 2.2

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.



