

PRODUCT: IG-55

Version: 1.0 Date: March 26, 2007

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name IG-55 Chemical Formula N_2 / Ar

Company Identification Local filling station

Emergency Phone Numbers Local filling station

COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation Preparation

Components / Impurities Contains no components or impurities which will influence the

classification of the product

CAS No. N/A EEC No. N/A

IG-55 Specifications Mixture of $50\% - 52\% N_2$ and 48% - 50% Ar.

 $H_2O \le 10$ ppm $O_2 \le 10$ ppm in base components.

HAZARDS IDENTIFICATION

Hazards Identification In high concentrations may cause asphyxiation.

Compressed gas.

FIRST AID MEASURES

Inhalation In high concentrations 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 person 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.

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FIRE FIGHTING MEASURES

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

Fire Department Non flammable.

Hazardous combustion products

Suitable extinguishing media

Specific methods

None.

All known extinguishants can be used.

If possible, stop flow of product.

Move cylinder away or 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 Provided it is safe to do so, try to stop release.

Prevent from entering sewers, basements, and work pits or any

place where accumulation can be dangerous.

Clean up methods Ventilate area.

HANDLING AND STORAGE

Handling and Storage Backflow of any contaminating substance into cylinder must be

prevented.

Use only equipment 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 cylinders below 122°F (50°C) in a well-ventilated place.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Value – ELV No ELV specified, but atmosphere must have minimum 18% free

oxygen

Personal Protection Ensure adequate air ventilation.

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PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight 33.95

Melting point -327.46°F (-199.7°C)
Boiling point -310.18°F (-190.1°C)
Critical temperature -210.46°F (-134.7°C)

Relative density gas Heavier than air

Relative density liquid N/A Vapor pressure 20°C N/A

Solubility in water Negligible

Appearance / color Colorless gas

Odor No odor warning properties

Auto ignition temperature Not applicable Flammability range Non flammable

Other data Vapor 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 No toxicological effects from this product.

LC50/ ih (ppm) No acute toxicity

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 Fike Corporation supplier if guidance is required.



TRANSPORT INFORMATION

UN No. 1956 Class / Div. 2.2

Emergency Action Code None specified

ADR / RID ITEM No. 1 2.1a IMDG page 2141

IMO EMS 2 – 04
ADR / RID Hazard No. Not specified

Labelling ADR Non flammable non-toxic gas.

Other transport information Avoid transport on vehicles where the loads space is not

separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load

and knows what to do at an emergency.

Before transporting product cylinders ensure:

- Cylinder valve is closed and not leaking

- Valve outlet cap or plug (where provided) is correctly fitted

- Adequate ventilation

- Compliance with applicable regulations.

REGULATORY INFORMATION

Number in annex 1 of Dir. 67/548 Not included in Annex 1.

EC Classification Not classified as a dangerous substance.

EC Labeling (Symbols, R & S phrases)

Symbols Compressed gas.

Risk Phrases Asphyxiate in high concentrations.

- Safety Phrases Do not breathe the gas.

Keep cylinders in a well-ventilated place.

OTHER INFORMATION

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

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. While 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 user's own assessment of workplace risk as required by other health and safety legislation.