ProInert<sup>®</sup> IG-541



# Material Safety Datasheets



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# **SAFETY DATA SHEET**

According to Regulation (EC) N° 1907/2006

# ProInert<sup>™</sup> IG-541 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** ProInert<sup>™</sup> IG-541 Use of the substance/preparation Fire extinguishing agent Company/undertaking identification **Fike Corporation** 704 SW 10th Street P.O. Box 610 **Blue Springs** Missouri 64013-0610 USA Tel : +1 816 229 3405 **Emergency telephone SECTION 2: Hazards identification** Classification of the substance or mixture Gases under pressure H280 : Contains gas under pressure; may explode if heated. Label elements Warning H280 : Contains gas under pressure; may explode if heated. P410 + P403 : Protect from sunlight. Store in a well-ventilated place. **Other Hazards** The gas mixture is heavier than air and can cause suffocation by reducing oxygen available for breathing.

#### **SECTION 3: Composition/information on ingredients**

Mixture of 48.8-55.2% Nitrogen, 37.2-42.8% Argon and 7.6-8.4% Carbon dioxide

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# **SECTION 4: First aid measures**

# **General advice**

If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

#### 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 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 even penetrate the skin, causing serious or fatal injuries. Seek medical advice immediately.

#### Ingestion

Ingestion is not considered a potential route of exposure.

# **SECTION 5: Fire-fighting measures**

#### Suitable extinguishing media

All known extinguishants can be used.

# Specific methods

If possible stop flow of product. Move container away or cool with water from a protected position.

# Specific hazards during firefighting

- Pressure buildup
- Fire of intense heat may cause violent rupture of containers.
- No hazardous combustion products.

# Advice for fire fighters

In confined spaces use self-contained breathing apparatus. Use personal protective equipment.

# **SECTION 6: Accidental release measures**

# **Personal precautions**

Evacuate personnel to safe areas. Ventilate area, especially low or enclosed places where the mixture might collect. Refer to protective measures listed in sections 7 and 8.

#### **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.

#### Methods for cleaning up

Ventilate area.

Disposal

Refer to section 13 for disposal instructions.

# SECTION 7: Handling and storage

# Handling

- Substance is heavier than air and may spread along floors.
- Compressed gas cylinders are heavy and contain considerable stored energy. Use suitable equipment and handle with appropriate caution. Contact supplier if in doubt.

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# Storage

Do not drag, slide or roll containers. Never attempt to lift cylinder by its cap. Use a check valve in the discharge line to prevent hazardous back flow into the container.

#### Storage temperature

Keep containers in a dry, cool and well ventilated place at a temperature of between -20°C and 50°C.

# **SECTION 8: Exposure controls/personal protection**

#### **Exposure limits**

No exposure limit specified, but atmosphere must have a minimum of 18% free oxygen.

#### **Exposure controls**

- Ensure adequate ventilation, especially in confined areas.
- *Eye protection* wear safety glasses complying with EN 166 or ANSI Z87.1
- Hand protection Leather gloves that are resistant to low temperature complying with EN 374 or US OSHA guidelines. The choice of the gloves also depends on other quality features other than material and is different from one manufacturer to another. Consideration must be given to specific local conditions such as the danger of cuts, abrasion and contact time with the substance.
- Skin and body protection Wear suitable protective equipment.
- Protective measures Self-contained breathing apparatus is required if a large release is experienced.
- Respiratory protection For rescue use self-contained breathing apparatus. The mixture is heavier than air and can cause suffocation by reducing the oxygen concentration available for breathing. Apparatus must comply with EN 137.

#### **SECTION 9: Physical and chemical properties**

# Physical and chemical properties

Physical and chemical pr	ope	erties	
Form	:	Colorless gas	
Odour	:	None	
Molecular weight	:	34.0	
Freezing point	:	-78.5°C	
Boiling point	:	-196°C	
Relative density gas	:	Heavier than air	
Relative density liquid	:	Not applicable	
Vapour pressure @ 20°C	:	Not applicable	
Solubility in water	:	Negligible	
Auto ignition temperatur	e:	Not applicable	
Flammability range	:	Not applicable	
SECTION 10: Stability and	rea	ctivity	
Reactivity and chemical	stał	bility	
Stable under normal conditions			
Possibility of hazardous	rea	ctions	
Stable			
Hazardous decompositio	on p	oroducts	
None			

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#### **SECTION 11: Toxicological information**

#### General

No toxicological effects from this product

# LC50/ih

No acute toxicity

# **SECTION 12: Ecological information**

No ecological damage is caused by this product. Nitrogen, Argon and Carbon dioxide are natural components of air. Nitrogen constituting approximately 78%, Argon approximately 0.9% and Carbon dioxide 0.03% of the earth's atmosphere.

# SECTION 13: Disposal considerations

To atmosphere in a 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.

#### **SECTION 14: Transport information**

UN No.	: 1956	
Class	: 2	
Proper shipping name	: Compress gas, n.o.s. (52% Nitrogen, 40% Argon, 8% Carbon dioxide)	
ADR/RID Item No.1	: 2.1a	
Other transport information	: Avoid transport on vehicles where the load 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 in an emergency.	
	Before transporting product containers ensure:	
	Cylinder valve is closed and not leaking.	
	Valve outlet cap is correctly fitted.	
	Adequate ventilation.	
	Compliance with applicable regulations.	

# **SECTION 15: Regulatory information**

#### **SECTION 16: Other information**

Refer to Section 3.

H280 Contains gas under pressure; may explode if heated.

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

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

The information provided in this document is correct at the date of publication. The information is designed only as a guide for safe handling, use, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.

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

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704 SW 10<sup>th</sup> Street P.O. Box 610 Blue Springs, Missouri 64013

Tel: (816) 229-3405 www.fike.com





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