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**1. IDENTIFICATION**

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<b>Product Name</b>	IG-541
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Fire Extinguishing Agent
<b>Restrictions on use</b>	Consult applicable fire protection codes
<b>Details of the Supplier of the SDS.</b>	Kidde-Fenwal, Inc.
<b>Manufacturer/Supplier</b>	400 Main Street Ashland, MA 01721 USA
<b>Customer Information Number</b>	(508) 881-2000
<b>Emergency Telephone Number</b>	
<b>CHEMTREC Number</b>	(800) 424-9300 (703) 527-3887 (International)
<b>Issue Date</b>	April 3, 2022
<b>Supersedes Date</b>	July 28, 2017

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**

Gas under pressure – compressed gas  
Simple Asphyxiant

**Label Elements**

Hazard Symbols



Signal Word: Warning

**Hazard Statements**

Contents under pressure; may explode if heated.  
May displace oxygen and cause rapid suffocation.

**Precautionary Statements****Prevention**

Do not enter confined space unless adequately ventilated.  
In case of inadequate ventilation wear respiratory protection.

**Response**

None

**Storage**

Keep container tightly closed.  
Protect from sunlight and store in well-ventilated place.

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**2. HAZARD IDENTIFICATION**

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**Disposal**

None

**Other Hazards**

Avoid direct inhalation of undiluted gas. Can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

**Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	0%
Acute dermal toxicity	0%
Acute inhalation toxicity	0%
Acute aquatic toxicity	100%

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture.

<b>Component</b>	<b>CAS Number</b>	<b>Concentration</b>
Nitrogen	7727-37-9	52%
Argon	7440-37-1	40%
Carbon Dioxide	124-38-9	8%

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**4. FIRST- AID MEASURES**

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**Description of necessary first-aid measures**

**Eyes**

No specific measures.

**Skin**

No specific measures.

**Ingestion**

Ingestion is not considered a potential route of exposure.

**Inhalation**

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**

Treat symptomatically.

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**5. FIRE - FIGHTING MEASURES**

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**Suitable (Unsuitable) Extinguishing Media**

This product is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep containers and surroundings cool with water spray as containers may rupture or burst in the heat of a fire.

**Specific hazards arising from the chemical**

Containers may explode in heat of fire.

**Special Protective Actions for Fire-Fighters**

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Remove leaking cylinder to a safe place. Ventilate the area. Leaks inside confined spaces may cause suffocation as oxygen is displaced and should not be entered without a self-contained breathing apparatus.

**Environmental Precautions**

None - Material is a normal atmospheric gas.

**Methods and materials for containment and cleaning up**

None

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll containers. Do not drop containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the containers.

**Conditions for safe storage**

Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Carbon Dioxide**

ACGIH TLV: 5000 ppm (9000 mg/m<sup>3</sup>) STEL: 30,000 ppm (54,000 mg/m<sup>3</sup>)

OSHA PEL: 5000 ppm (9000 mg/m<sup>3</sup>)

**Appropriate engineering controls**

Use with adequate ventilation (natural or mechanical), especially in a confined space.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Individual protection measures****Respiratory Protection**

Not normally required. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.

**Skin Protection**

Use leather or sturdy work gloves when handling cylinders.

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields.

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance****Physical State**

Compressed gas

**Color**

Colorless

**Odor**

None

**Odor Threshold**

Not applicable

**pH**

Not applicable

**Relative Gas Density**

Heavier than air.

**Boiling Range/Point (°C)**

Not applicable

**Melting Point (°C)**

Not applicable

**Flash Point (PMCC) (°C/F)**

Not applicable

**Vapor Pressure**

No data available

**Evaporation Rate (BuAc=1)**

Not applicable

**Solubility in Water**

No data available

**Vapor Density (Air = 1)**

No data available

**VOC (%)**

Not applicable

**Partition coefficient (n-octanol/water)**

No data available

**Viscosity**

Not applicable

**Auto-ignition Temperature**

Not applicable

**Decomposition Temperature**

Not applicable

**Upper explosive limit**

Not applicable

**Lower explosive limit**

Not applicable

**Flammability (solid, gas)**

Not flammable

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

Containers may rupture or explode if exposed to heat.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

None known

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**10. STABILITY AND REACTIVITY**

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**Incompatible Materials**

None known

**Hazardous Decomposition Products**

None

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Simple asphyxiant.

**Specific Target Organ Toxicity (STOT) – single exposure**

Exposure to argon, nitrogen and carbon dioxide gases at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

**Specific Target Organ Toxicity (STOT) – repeat exposure**

No data available.

**Serious Eye damage/Irritation**

No data available.

**Skin Corrosion/Irritation**

No data available.

**Respiratory or Skin Sensitization**

No data available.

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

No data available

**Mobility in soil**

Argon, nitrogen and carbon dioxide occur naturally in the atmosphere.

**Persistence/Degradability**

Argon, nitrogen and carbon dioxide occur naturally in the atmosphere.

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**12. ECOLOGICAL INFORMATION**

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**Bioaccumulative Potential**

Argon, nitrogen and carbon dioxide occur naturally in the atmosphere.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. If spilled, contents will vaporize to the atmosphere.

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**14. TRANSPORT INFORMATION**

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Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

**Pressurized Containers**

**DOT CFR 172.101 Data**

Compressed Gas, n.o.s., (Nitrogen, Argon, Carbon Dioxide), (2.2), UN1956

**UN Proper Shipping Name**

Compressed Gas, n.o.s., (Nitrogen, Argon, Carbon Dioxide) (2.2)

**UN Class**

**UN Number**

UN1956

**UN Packaging Group**

Not applicable

**Classification for AIR**

Consult current IATA Regulations prior to shipping by air.

**Transportation (IATA)**

**Classification for Water**

Consult current IMDG Regulations prior to shipping by water.

**Transport IMDG**

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

All components of this product are in compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Canada DSL Inventory**

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL).

**SARA Title III Sect. 311/312 Categorization**

Pressure Hazard

**SARA Title III Sect. 313**

This product does not contain any chemicals listed in Section 313 at or above de minimis concentrations.

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**16. OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Health - 0  
NFPA Code for Flammability - 0  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards – None

**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service  
IARC: International Agency for Research on Cancer  
LCLo: Lethal concentration low  
N/A: Denotes no applicable information found or available  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value

Revision Date: April 3, 2022

Replaces: July 28, 2017

Changes made: Updated logo, sub-header in Section 1 and 5 and added part number..

**Part Number: 06-237878-001**

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

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