EU regulation 1907/2006, 1272/2008, 453/2010



### **Section 1: Identification**

Product
 Gas mixture, 52% Nitrogen, 40% Argon, 8% CO2

IG541, INERGEN

Manufacturer
 Fire Eater, Vølundsvej 17, 3400 Hillerød, Denmark, +45 7022 2769

www.fire-eater.com, email: info@fire-eater.com

Importer
 ONE SUPPLY Pty Ltd., 7 Bafile Lane, 6164, Beeliar WA

Emergency response +61 04 395 35 721

Product use
 Fire Extinguishing Systems

### Section 2: Hazard(s) Identification

OSHA/HCS status
 This material is considered hazardous by the OSHA Hazard Communication Standard (29)

CFR 1910.1200)

Classification of the substance or mixture

GASES UNDER PRESSURE - Compressed gas H280, Full text of H-phrases: see section 16

67/548/EEC (DSD) or 1999/45/EC (DPD)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

#### **GHS Label elements**

Hazard pictograms (CLP)



Signal word Warning

Hazard statement H280 - Contains gas under pressure; may explode if heated

OSHA-H01 - May displace oxygen and cause rapid suffocation.

#### Precaution statements

• General Read and follow all Safe Data Sheets (SDS's) before use.

Storage P403 - Store in a well-ventilated place.

P410 - Protect from sunlight. Protect from sunlight when ambient temperature exceeds

52°C/125°F.

Disposal Not applicable

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### Section 3: Composition/Information on Ingredients

#### Mixture

Name	Product identifier		%	Classification	Classification
				Directive 67/548/EC	Regulation 1272/208 (CLP)
Nitrogen	CAS No	7727-37-9	52	Not classified	H280:
	EC No	231-783-9			Contains gas under pressure;
	REACH No	ANNEX IV			may explode if heated
Argon	CAS No	7440-37-1	40	Not classified	H280:
	EC No	231-147-0			Contains gas under pressure;
	REACH-No	ANNEX IV			may explode if heated
Carbon dioxide	CAS No	124-38-9	8	Not classified	H280:
	EC No	204-696-9			Contains gas under pressure;
	REACH No	ANNEX IV			may explode if heated

• REACH Registration: All components are listed in Annex IV of Regulation EC 1907/2006 (REACH)

and are exempted from registration in accordance with article 2(7)(a).

Contains no other components or impurities which will influence the classification of the

product.

#### **Section 4: First-Aid Measures**

#### Description of necessary first-aid instructions

• Inhalation: Remove victim to uncontaminated area wearing self contained breathing apparatus.

Keep victim warm and rested. Call a doctor.

Apply artificial respiration if breathing stopped.

Skin contact: Adverse effects not expected from this product.

Eye contact: Adverse effects not expected from this product.

Ingestion: As this product is a gas, refer to inhalation section.

#### Most important symptoms and effects, both acute and delayed

• No additional information available

### Indication of any immediate medical attention and special treatment needed

• None.

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## Section 5: Fire-Fighting Measures

#### Extinguishing media

• Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media :

Non known.

#### Special hazards arising from the substance or mixture

· No reactivity hazards other than the effects described below

#### Advice for firefighters

• Firefighting instructions:

Depressurize the cylinders by releasing the fire extinguishing system if connected in this.

Do not activate the release valve if cylinder is not securely fastened.

Remove ignition source if safe to do so.

Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

Protection during firefighting:

Compressed gas: asphyxiant, suffocation hazard by lack of oxygen.

Special methods: Use fire control measures appropriate for the surrounding fire.

Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool

endangered receptacles with water spray jet from a protected position.

### Section 6: Accidental Release Measures

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

• Non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Avoid breathing gas.

Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

Stay upwind.

Emergency responders:

Monitor oxygen level to determine concentration of released product.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved

to be safe.

Ensure adequate air ventilation.

Act in accordance with local emergency plan.

Environmental precautions:

None

#### Methods and materials for containment and cleaning up

• Clean-up procedures: Ventilate with fresh air

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### Section 7: Handling and Storage

#### Precautions for safe handling

General Put on appropriate personal protective equipment (see Section 8).

Contains gas under pressure. Do not puncture or incinerate container.

Use equipment rated for cylinder pressure.

Protect cylinders from physical damage; do not drag, roll, slide, or drop.

Use a suitable hand truck for cylinder movement. Do not use valve cap for lifting.

#### Conditions for safe storage

• Storage Store in accordance with local regulations.

Store away from direct sunlight in a dry, cool and well-ventilated area. Keep container

tightly closed and sealed until ready for use. Cylinders can be stored horizontal or vertical.

Valve cap/guard must be fitted to the cylinder and only to be removed when the cylinder

is securely fastened.

Cylinders are always to be firmly secured to prevent falling or being knocked over.

Cylinder temperatures should not exceed 65 °C (150 °F).

## Section 8: Exposure Controls/Personal Protection

• General: All components are exempted from REACH registration in accordance with article 2(7)(a).

Annex IV of Regulation EC 1907/2006 (REACH)

Contains no other components or impurities which will influence the classification of the

product.

#### Occupational exposure limits

General: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Nitrogen	52%	Oxygen Depletion [Asphyxiant]
Argon	40%	Oxygen Depletion [Asphyxiant]
Carbon	8%	OSHA PEL: 5.000 ppm
dioxide		ACGIH TLV (2012)
		TWA: 5.000 ppm
		STEL: 30.000 ppm

• Appropriate engineering controls:

Oxygen detectors should be used when asphyxiating gases may be released.

Provide adequate general and local exhaust ventilation.

Systems under pressure should be regularly checked for leakages. Ensure exposure is

below occupational exposure limits (where available).

Thermal hazard protection:

None necessary.

• Environmental exposure controls :

None necessary.

• Other information :

Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective

equipment - Safety footwear.

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## Section 9: Physical and Chemical Properties

Appearance:

Physical state: Gas

Color: ColorlessOdor: Odorless

Flammability: Non flammable, does not sustain combustion

Molar mass 34.08 g/mol

Vapor density: 1.416 kg/ m³ (t = 20°C, p = 1.0132 bar)

Relative density: 1.18 (@t= 20°C, p = 1.0132 bar)

## Section 10: Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable

Possible hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous decompositions products:

None

Hazardous polymerization:

None

### Section 11: Toxicological Information

General: All components are exempted from REACH registration in accordance with article 2(7)(a).

Annex IV of Regulation EC 1907/2006 (REACH)

Contains no other components or impurities which will influence the classification of the

product.

Information on toxicological effects

Acute toxicity: None Irritation/corrosion: None

Sensitization: Stimulate the respiratory system to increase breathing

Mutagenicity: None
Carcinogenicity: None
Reproductive toxicity: None
Teratogenicity: None

Specific target organ toxicity (single or repeated exposure)

None

Aspiration hazard: Stimulate the respiratory system to increase breathing

Potential acute health effects

Eye contact: None

Inhalation Increased breathing

Skin contact None

Ingestion See Inhalation

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### Symptoms related to the physical, chemical and toxicological characteristics

None

## Delayed and immediate effects and also chronic effects from short and long term exposure Eye contact

None

Long term exposure None

Potential chronic health effects None

Numerical measures of toxicity None

## Section 12: Ecological Information

• Toxicity None

Persistence and degradability
 Bio accumulative potential:
 Soil/water partition Coefficient):
 Not relevant

• Ecological effects: No known ecological damage caused by this product.

### Section 13: Disposal Considerations (non-mandatory)

• Disposal methods: May be vented to atmosphere in a well ventilated place.

Do not discharge into any place where its accumulation could be dangerous.

Refer to the code of practice of EIGA (www.eiga.org).

Container must be disposed of in a safe way. Do not puncture or incinerate container

### Section 14: Transport Information (non-mandatory)

UN number: UN 1956

### Labeling

• ADR, IMDG, IATA, DOT, TDG.



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### ADR (road transport)

• Shipping Name: COMPRESSED GAS, N.O.S. (Nitrogen, Argon)

• H.I. nr: 20

Transport hazard class: 2

Classification code 1A

Packing Instructions: P200

Special provision: 274, 655

• Limited quantity: 120ml

Exempted quantities: E1

Transport category: 3

• Hazard identification (Kemler No)

20

20 1956

Orange plates:

Tunnel Restriction: E: Passage forbidden through tunnels of category E

EAC code: 2TE

### AGD (road transport)

• Class: 2

Hazchemcode 2TE

Hazard Id No: 20

• Tunnel Restriction: E: Passage forbidden through tunnels of category E

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### ICAO-TI/IATA-DGR

• Shipping Name: Compressed gas n.o.s. (Nitrogen, Argon)

• Class: 2.2

Passenger and Cargo Aircraft

Allowed

Packing Instructions: P200

Cargo Aircraft only

Allowed

Packing Instructions: P200

IMDG (Sea transport)

• Shipping Name: COMPRESSED GAS, N.O.S. (Nitrogen, Argon)

• Class: 2.2

• Emergency Schedule (EmS)

Fire: F-C Spillage: S-V

Packing Instructions: P200

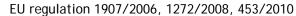
Special provisions: 274

Limited quantites: 120 ml

Excempted quantities: E1

Stowahe category: A

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## Section 15: Regulatory Information (non-mandatory)

### **EU-Regulation**

• REACH All components are exempted from REACH registration in accordance with article 2(7)(a).

Annex IV of Regulation EC 1907/2006 (REACH)

Contains no other components or impurities which will influence the classification of the

product.

Contains no substances with Annex XVII restriction

#### Wassenaar Arrangement

• No ECCN number as all components are free to export without any restrictions.

### Section 16: Other Information

Training: INMON0001

• This Safety Data Sheet has been established in accordance with the applicable European

Union legislation.

Classification in accordance with calculation methods of regulation (EC)

1272/2008 CLP / (EC) 1999/45 DPD.

Australian Section 274 of the Work Health and Safety Act

Revision First revision for Australia issued 2017-12-22

Previous revision (EU) File: SDS IG541 eng 2016-11

**END OF SAFETY DATASHEET** 

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