
1. IDENTIFICATION

Product Name	Kidde Fire Systems NATURA™-Micro Pre-Activated Cool Gas Generators
UFI	K300-908E-Y003-C3SA
Recommended use of the chemical and restrictions on use	
Identified uses	Fire extinguishing device releasing nitrogen when activated.
Company Identification	Kidde-Fenwal, LLC 400 Main Street Ashland, MA 01721 USA
Customer Information Number	(508) 881-2000
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300 (703) 527-3887 (International)
Issue Date	March 27, 2026
Supersedes Date	N/A, First Issue

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)

2. HAZARD IDENTIFICATION

This article contains pyrotechnic components and chemical components that are hermetically sealed off from the environment. These cannot be released under normal or reasonably foreseeable conditions of use including proper disposal.

Classification of the article

Safety device which is electrically initiated.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification of the content

In normal use, the content of the device cannot be released.

Label elements**Article**

Pictograms



GHS09

Signal word

Warning

2. HAZARD IDENTIFICATION (continued)
Content
Pictograms


GHS06



GHS08



GHS09

Signal word

Toxic and harmful for human and environment

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273	Avoid release to the environment.
P370 + P380	In case of fire: Evacuate area.
P374	Fight fire with normal precautions from a reasonable distance.
P501	Dispose of contents/ container to an approved waste disposal plant.

Other Hazards

Risk of burn injuries in case of direct contact with the surface of the generator when heated by activation.

Unconsciousness due to inhaling nitrogen when generator has been activated.

Do not handle device shortly after ignition because of liquid sodium in device. Allow at least 4 hours to cool down.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Article

The chemical part of the device contains the in this chapter mentioned components. Devices shall only be opened by destroying the whole entity. There is no risk to be exposed to the contents of the generator, except in cases of loss of tightness due to mechanical stress.

Content

Grain and top layer

Ingredient	CAS-number	Concentration (wt.%)	Symbols	H-Phrases**
Sodium Azide	26628-22-8	70-80	GHS06, GHS08, GHS09	300-310-373-400-410
Cooling agent	XXXX-24-4*	10-15	GHS06	301-315-319-335 EUH032
Metal	XXXX-37-1*	0-5	GHS07	315-319-335
Binder	XXXX-76-1*	5-10	GHS07	302-315-319-335

*Full CAS numbers available upon request for enforcement purposes

**For the full text of the H-Statements mentioned in this Section, see Section 16.

Booster

Ingredient	CAS-number	Concentration (wt.%)	Symbols	H-Phrases**
BKNO3	7440-42-8	100	GHS01, GHS07	203-302-318

**For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST- AID MEASURES

Description of necessary first-aid measures

In general, in case of doubt or if symptoms persist, always call a physician. Never give anything by mouth to an unconscious person. In case of breaking or opening of a generator, evacuate people from the contaminated area and provide maximum ventilation.

If inhalation of gas after ignition

- Bring victim to well-ventilated area.
- Let victim rest in a half-seated position.
- Immediately consult a physician.

If inhaled Inhalation of dust

- Bring victim to well-ventilated area.
- In case of difficult breathing, apply extra oxygen. Do not apply mouth to mouth or mouth to nose resuscitation. The poisoned person can eliminate highly toxic hydrazoic acid.
- Immediately consult a physician.

In case of skin contact

- Remove large grain particles
- Rinse with water for a minimum of 15 minutes
- Remove contaminated clothes and shoes
- Immediately consult a physician.

In case of eye contact

- Rinse immediately with plenty of water for at least 15 minutes.
- Immediately consult a physician.

If swallowed

- Rinse mouth immediately with water, in case the victim is conscious
- Induce vomiting.
- In case of difficult breathing, apply extra oxygen. Do not apply mouth to mouth or mouth to nose resuscitation. The poisoned person can eliminate highly toxic hydrazoic acid.
- Immediately consult a physician and show this safety sheet.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

Use dry powder or sand to extinguish fire. **Do not use water!**

Specific hazards arising from the chemical

Nitrogen gas is released when device is ignited.

Special Protective Actions for Fire-Fighters

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

6. ACCIDENTAL RELEASE MEASURES

In case of breaking or opening of a generator, evacuate people from the contaminated area and provide maximum ventilation.

Personnel precautions, protective equipment and emergency procedure

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personnel protection see section 7 and 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

The generators are hermetically sealed off from the environment. The content cannot be released under normal or reasonably foreseeable conditions of use including proper disposal if they are used in accordance with the manufacturer's recommendations – see Operating manual.

Precautions for safe handling

The chemical agents within the generator are safely contained in normal condition of use. Do not open, drill, incinerate, crush, immerse, or expose to temperatures above the operating temperature range reported for products.

Avoid all possible contact with the content inside the device.

Conditions for safe storage

The device is to be stored in a clean and dry area. The relative humidity of the area is between 0 and 100%. Regular storage conditions for its total life span are between 32°F and 131°F (0°C and 55°C). For short periods (i.e. less than ten days) the temperature may be between -31°F and 185°F (-35°C and 85°C).

Incompatibility

Do not store together with combustible or oxidizing substances or mixtures.

Store away from water and sources of heat

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters.

Not applicable.

Exposure control
Article Appropriate engineering controls

Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Wear safety shoes.


Respiratory protection

When device has been activated use adequate respiratory protection..

Hand protection

Within 4 hours after activating CGG, strictly avoid contact with activated hot device. Use heat protective gloves when handling after activation.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Article Appearance

Form	Metal casing containing a solid, porous block
Color	Metal

Content
Safety data

Flammability	Content is flammable solid
Incompatibility	Do not store together with combustible or oxidizing substances or mixtures. Store away from water.
Decomposition gasses	When device ignites it releases nitrogen gas and traces of NO _x , CO and CO ₂ .

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Do not allow water to enter container.

Materials to avoid

When activated device, avoid any contact with water. Avoid contact with combustible or oxidizing materials.

Hazardous decomposition products

Sodium slag.

11. TOXICOLOGICAL INFORMATION

Toxicity of the content

Component	Acute toxicity (LD50, oral) (mg/kg)	Effects of exposure
Sodium Azide	10 (20 at dermal absorption)	Nausea, headache, vomiting. Possible effects on the central nervous system.
Lithium Floride	143	Shortness of breath, headache, nausea, vomiting, large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances.
Catalyst		Long term inhalation exposure (fume or dust) can cause siderosis.
Binder	For similar binders it ranges from 1500-3200	Prolonged or repeated inhalation causes lung diseases.

Article

Nitrogen released gas is non-toxic, but it may cause asphyxiation hazard in an enclosed space.

Skin corrosion / irritation: Not applicable

Serious eye damage / eye irritation: Not applicable

Respiratory or skin sensitization: Not applicable

Germ cell mutagenicity: Not applicable

Carcinogenity: Not applicable

Reproductive toxicity: Not applicable

Specific target organ toxicity – single exposure: Not applicable

Specific target organ toxicity – repeated exposure: Not applicable

Aspiration hazard: Not applicable

Potential health effects: Not applicable

Signs and symptoms of exposure: Not applicable

12. ECOLOGICAL INFORMATION

Toxicity

The content is toxic to the environment.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: No data available.

13. STABILITY AND REACTIVITY

Product

Treat product as chemical waste. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Used product contains sodium. Refer to separate SDS for further information.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 3559

Class: 9

Packaging group: III

Proper shipping name:

FIRE SUPPRESSANT DISPERSING DEVICES

IMDG

UN-Number 3559

Class: 9

Packaging group: III

EMS-No.: F=B,S-X

Proper shipping name:

FIRE SUPPRESSANT DISPERSING DEVICES

Marine pollutant:

Yes

IATA

UN-Number 3559

Class: 9

Packaging group: III

Proper shipping name:

FIRE SUPPRESSANT DISPERSING DEVICES

Additional conditions ADR/RID

Cool gas generators can be transported in any (private) vehicle provided:

- They are packed in UN approved packaging;
- A transport document accompanies the shipment; and
- At least one portable fire extinguisher for the flammability classes A, B or C, with a minimum capacity of 2 kg dry powder (or an equivalent capacity of any other suitable extinguishing agent) is present in the vehicle.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the article

No data available

Chemical safety assessment

No data available

16. OTHER INFORMATION

16.1 H and P sentences

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273	Avoid release to the environment.
P370 + P380	In case of fire: Evacuate area.
P374	Fight fire with normal precautions from a reasonable distance.
P501	Dispose of contents/ container to an approved waste disposal plant.
H203	Explosive; fire, blast or projection hazard.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
EUH032:	In contact with acids highly toxic gases are released

P/N: SDS_KFS_37_0010_EN

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Changes made: N/A Initial Release

Information Source and References

This SDS is prepared by Kidde-Fenwal, LLC based on information provided by internal company references.

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