
1. IDENTIFICATION

Notice:

This document applies to the Kidde Fire Systems NATURA™-Micro Cool Gas Generators after the device has been deployed (post-activated). Information regarding the unused device is provided in the formal Safety Data Sheet. Since the deployed device is not a commercial product, full compliance with REACH and CLP is not required, and no compliance assessment has been performed. Consequently, this document serves as a safety guidance document rather than a formal Safety Data Sheet.

Product Name

Kidde Fire Systems NATURA™-Micro
Post-Activated Cool Gas Generators

**Recommended use of the chemical and
restrictions on use****Identified uses**

Product is a residual/conversion product after activation of a fire extinguishing device releasing nitrogen. Product contains residual substances and a polluted sand filter inside.

Company Identification

Kidde-Fenwal, LLC
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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

The Post-activated article contains sand, sodium slag and various other toxic and non-toxic components. Through normal or reasonably foreseeable conditions of use and handling including proper disposal, these components cannot be released.

Classification of the article

Wastes are exempt from registration in accordance with REACH regulation. There is no registration number available. Article containing dangerous goods.

Classification of the content

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

2. HAZARD IDENTIFICATION (continued)

Label elements
Article
Pictograms


GHS09

Signal word

Warning

Content
Pictograms


GHS02



GHS05



GHS06

Signal word

Danger

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.
P222	Do not allow contact with air
P223	Keep away from any contact with water, because of violent reaction and possible flash fire.
P232	Protect from moisture.
P234	Keep only in original container.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.
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.
 Let the device cool down for at least 4 hours after activation.
 Do not handle device shortly after ignition because of liquid sodium in device

3. COMPOSITION/INFORMATION ON INGREDIENTS

Article

The chemical part of the device contains the in this chapter mentioned components. Devices shall only be opened during proper disposal. 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	7440-23-5	60	GHS02, GHS05	260-314
Cooling agent	XXXX-24-4*	25	GHS06	301-315-319-335
Iron Compounds	XXXX-37-1*	7	GHS07	315-319-335
Potassium Compounds		8	GHS05	302-314-332
Silica Compounds				319-335-373

*Full CAS numbers available upon request for enforcement purposes

**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 inhaled

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

In case of skin contact

- Remove contaminated clothes.
- Remove metal particles with a dry forceps.
- Rinse with water for a minimum of 15 minutes.
- Immediately consult a physician.

In case of eye contact

- Rinse immediately with plenty of water for at least 15 minutes.
- Remove metal particles with a dry forceps, if possible.
- Immediately consult a physician.

If swallowed

- Rinse mouth immediately with water, in case the victim is conscious
- Let victim rest.
- DO NOT induce vomiting.
- DO NOT let victim drink.
- Immediately consult a physician.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

When content is not exposed, no risks or injuries are expected. Fire-fighting measures are based on contact with the content after breaking or opening of an activated device.

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

Specific hazards arising from the chemical

Highly flammable in presence of moisture. Hydrogen gas may be formed.

Flammable in presence of open flames and sparks, and in the presence of heat. In case of fire toxic gases will be emitted.

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. Eliminate all sources of ignition.

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

Stop further leakage or spillage if safe to do so. Do not touch spilled material. Cover with mineral oil, dry earth, sand or other non-combustible material. Eliminate all ignition sources.

Call for assistance on disposal. Pick up and arrange disposal without creating dust. Sweep and shovel. Do not flush with water. Keep under mineral oil in suitable closed container for disposal. Store container in a well-ventilated area away from water or moisture and other chemicals.

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

Store in a clean area, between -4°F and 158°F (-20 °C and 70°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.

**Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety glasses.

Respiratory protection

When exposure limits are exceeding or if irritation or other symptoms are experienced, use an adequate respiratory protection (combination filter B-P3, color code grey-white). Use insulating device independent breathing apparatus for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear.

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, contains sodium slag
Incompatibility Do not store together with combustible or oxidizing substances or mixtures.
Decomposition gasses Small traces of combustion gases (e.g. CO, CO₂, NO_x, SO₂ traces < 1%).

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Do not allow water to enter container.

Materials to avoid

Avoid any contact with water.
Avoid contact with combustible or oxidizing materials.

Hazardous decomposition products

Content contains sodium slag.

Highly reactive with oxidizing agents, acids, moisture. Content reacts violently with water to emit flammable (hydrogen) and toxic gases.

11. TOXICOLOGICAL INFORMATION

Toxicity of the content

Component	Acute toxicity (LD ₅₀ , oral) (mg/kg)	Effects of exposure
Sodium	No information available	Product is a corrosive material. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
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.
Silica Compounds	No information available	Prolonged or repeated inhalation of crystal-line silica causes lung diseases.
Potassium Compounds	No information available	

Article

When used properly, no health effects are expected.

12. ECOLOGICAL INFORMATION

Toxicity

The content is toxic to the environment. Sodium slag is highly reactive to water.

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.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 3543

Class: 4.3

Packaging group: III

Proper shipping name:

ARTICLES CONTAINING A SUBSTANCE WHICH IN CONTACT WITH WATER EMITS FLAMMABLE GASES N.O.S (residue inside canister contains sodium).

IMDG

UN-Number 3543

Class: 4.3

Packaging group: III

Proper shipping name:

ARTICLES CONTAINING A SUBSTANCE WHICH IN CONTACT WITH WATER EMITS FLAMMABLE GASES N.O.S (residue inside canister contains sodium). Items under this UN number shall be transported under conditions approved by the competent authority.

IATA

Transport by air is forbidden in both passenger and cargo aircraft.

Additional conditions ADR/RID

The post-activated 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

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.
P374	Fight fire with normal precautions from a reasonable distance.
P501	Dispose of contents/ container to an approved waste disposal plant.
EUH014	Reacts violently with water
EUH032:	In contact with acids highly toxic gases are released
H260	In contact with water releases flammable gases which may ignite spontaneously.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure

P/N: SGD_KFS_37_0001_EN

Revision Date: March 27, 2026

Replaces: N/A Initial Release

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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