

Safety Guidance Document

Product: Cool Gas Generators Activated
Issue: 31-07-2026
Status: Approved by ExxFire



Notice:

I: This document applies to the ExxFire cool gas generator after the device has been deployed. Information regarding the unused device is provided in the formal Safety Data Sheet (SDS).

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 (SDS).

*II: The product used contains material that generates flammable gases when it comes into contact with water. However, this will not occur because the **outer enclosure is hermetically sealed**.*

ExxFire has conducted spray and immersion tests under the supervision of a competent authority¹ to demonstrate this, and the current classification is based on the results of those tests.

If the device shows visible damage, its water tightness may be compromised. If in doubt, please contact ExxFire.

III: The information contained in this document is based on the official notification from the competent authority and on the safety data sheets of the unused generator and of the main individual components contained within the sealed section of the used generator.

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifiers

Product name : Cool Gas Generators Activated:
Exxfire NXG09N2 Activated

An activated Cool Gas Generator contains inside dry material consisting of sand, sodium, iron oxide and various lithium and fluoride containing compounds.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	This product is the residual product remaining after activation of a fire extinguishing device that releases nitrogen. It contains residual substances and a contaminated internal sand filter. It is intended solely for return to the manufacturer for recycling and must not be reused or repurposed.
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1.3 Details of the supplier of the datasheet

Company	Exxfire B.V. Metaalpark 19 9936 BV Farmsum The Netherlands
Telephone	+31 85 4017970
E-mail address	info@exxfire.com

¹ The competent authority of The Netherlands for the classification of explosives for road, rail and inland waterway transport, TNO, P.O. Box 480, 2501 CL The Hague, the Netherlands, Approval number 100361750, July 29, 2026

1.4 Emergency telephone number

Emergency phone # +31 88 755 8000
National Poisonings Information Centre
(The Netherlands)²

2 HAZARDS IDENTIFICATION

The 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.

2.1 Classification of the article

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

The used Cool Gas Generator must be treated as “Article containing dangerous goods”.

2.2 Classification of the content

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

2.3 Label elements

2.3.1 Article

Pictograms -

Signal word -

2.3.2 Content

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

Pictograms



GHS02



GHS05



GHS06

Signal word Danger

EUH Statement

EUH014 EUH014: Reacts violently with water

² Professional care providers can request information about acute poisonings from the National Poisons Information Centre (NVIC) by telephone or via the internet. The NVIC can be reached via: 088 755 8000 (24 hours a day, 7 days a week) and Poisonings.info. Individuals with questions about poisonings are advised to contact their treating physician.

Precautionary statement(s)

P223	Keep away from any contact with water, because of violent reaction and possible flash fire.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.
P330	Rinse mouth.
P370+P378	In case of fire: Use Dry Powder to extinguish.

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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Article

The chemical part of the device contains the in this chapter mentioned components. Devices shall not be opened by unauthorized persons.

There is no risk to be exposed to the contents of the generator, except in cases of loss of tightness due to mechanical stress.

3.2 Content

Grain and top layer

<i>Ingredient</i>	<i>CAS-number</i>	<i>Concentration (wt. %)</i>	<i>Symbols</i>	<i>H-phrases**</i>
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

4.1 Description of 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.
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5 FIRE-FIGHTING MEASURES

5.1 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!**

5.2 Special hazards arising from the substance or mixture

If (and only if) content is exposed, highly flammable in presence of water. 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 and fumes will be emitted.

5.3 Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary (see 5.2).

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.

6.1 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

6.2 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.

6.3 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

6.4 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.

7.1 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.

7.2 Conditions for safe storage

Store in a clean area, between -20 and + 70 °C.

7.3 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

8.1 Control parameters.

Not applicable.

8.2 Exposure control

8.2.1 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

If (and only if) content is exposed, respiratory protection may be considered when exposure limits are exceeding or if irritation or other symptoms are experienced. In that case, use an adequate respiratory protection (combination filter B-P3, color code grey-white).

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

9.1 Article Appearance

Form	Metal casing containing a solid, porous block
Color	Metal

9.2 Content

Safety data

Flammability	Content is flammable solid, contains sodium slag
Incompatibility	see 7.3
Decomposition gasses	Small traces of combustion gasses (e.g. CO, CO ₂ , NO _x , SO ₂ traces < 1%).

10 STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under recommended storage conditions.

10.2 Conditions to avoid

Do not allow water to enter container

10.3 Materials to avoid

Avoid any contact with water.

Avoid contact with combustible or oxidizing materials.

10.4 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.

See section 9.2.

11 TOXICOLOGICAL INFORMATION

11.1 Toxicity of the content

Component	Acute toxicity (LD50, 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 fluoride	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 crystalline silica causes lung diseases.
Potassium compounds	No information available	

11.2 Article

When used properly, no health effects are expected.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

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

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 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.

13.2 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, for recycling purposes

IMDG

UN-Number 3559 Class: 9 Packaging group: III EMS-No.: F-B, S-X

Proper shipping name: FIRE SUPPRESSANT DISPERSING DEVICES, for recycling purposes

Marine pollutant: Yes

IATA

UN-Number: 3559 Class: 9 Packaging group: III

Proper shipping name: FIRE SUPPRESSANT DISPERSING DEVICES, for recycling purposes

Additional conditions ADR/RID

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

- They are packed in UN approved packagings;
- A transport document accompanies the shipment; and
- At least one portable fire extinguisher for the inflammability 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

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

No data available

15.2 Chemical safety assessment

No data available

16 OTHER INFORMATION

16.1 H and P sentences

P223	Keep away from any contact with water, because of violent reaction and possible flash fire.
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EUH014 Reacts violently with water

H260 In contact with water releases flammable gases which may ignite spontaneously.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

16.2 Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ExxFire shall not be liable for any damage resulting from handling or from contact with the above product.
