Material Safety Data Sheet

For

Thermal Aerosol Automatic Fire Suppression Device

Model: GQRR-0.01G, GQRR-0.02G, GQRR-0.03G, GQRR-0.04G

Prepared For : Zhejiang GEYA Electrical Co., Ltd

Wenzhou Bridge Industrial Zone, Beibaixiang Town, Yueqing City, Zhejiang Province

Manufacturer : Zhejiang GEYA Electrical Co., Ltd

Wenzhou Bridge Industrial Zone, Beibaixiang Town, Yueqing City, Zhejiang Province

Prepared By : ShenZhen Anxin Testing Technology Co., Ltd.

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Zhejiang GEYA Electrical Co., Ltd

Wenzhou Bridge Industrial Zone, Beibaixiang Town, Yueqing City, Zhejiang Province

Sample Name	Thermal Aerosol Automatic Fire Suppression Device
End Uses	Fire protection device

Reviewed by

Kevin Liu /Manager

Jul. 01, 2026

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Section 1- Chemical Product and Company Identification

Product Identification: Thermal Aerosol Automatic Fire Suppression Device

Model: GQRR-0.01G, GQRR-0.02G, GQRR-0.03G, GQRR-0.04G

Manufacturer's/ Supplier Name: Zhejiang GEYA Electrical Co., Ltd

Address: Wenzhou Bridge Industrial Zone, Beibaixiang Town, Yueqing City, Zhejiang Province

Fax: N/A

Tel: 15967733979

E-mail address: N/A

This MSDS was prepared by ShenZhen Anxin Testing Technology Co., Ltd.

Referenced documents: ISO 11014: 2009 Safety data sheet for chemical products.

Section 2 – Hazards Identification

CLP classification according to Regulation（EC）No. 1272/2008:

Oxidizing solid: Category 3

Skin corrosion/stimulation: Category 2

Severe eye injury/eye irritation: Category 2B

Hazard statements: Can intensify combustion;Oxidizing agent. Causes skin irritation. Causes eye irritation.

Prevention: Stay away from heat sources / sparks / open flames / hot surfaces. No smoking. Keep away from storage areas and clothing / flammable materials. Take all precautions to avoid mixing with combustibles. Wash face and hands thoroughly after work. Wear protective gloves / protective clothing / protective goggles / protective mask.

Response: Specific treatment (see label). If the skin is contaminated:Wash with plenty of soap and water. If there is skin irritation:Seek medical attention. If there is still eye irritation:Seek medical attention. Remove all contaminated clothing and wash before reuse. In case of fire:Use the appropriate fire-extinguishing medium mentioned in Part 5 of the SDS to extinguish the fire. If it enters the eyes:Rinse with water for a few minutes carefully. If wearing contact lenses and they can be easily removed,remove the contact lenses. Continue rinsing.

Storage: Not applicable

Disposal: Dispose of the contents/containers in accordance with local/regional/national/ international regulations.

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Section 3 – Composition/Information on Ingredients

Product name：Thermal Aerosol Automatic Fire Suppression Device

Component		Weight % content (or range)	Classification according to Regulation (EC)No.1272/2008 [CLP]
Strontium nitrate CAS:10042-76-9 EC:233-131-9 Index No.: -		50.0	Oxidizing solid,Category 3,H272;Skin corrosion/stimulation,Category 2,H315;Severe eye injury/eye irritation,Category 2B,H320
Composite reducing agent	**Phenolic resin** CAS:9003-35-4 EC:500-005-2 Index No.: -	22..0	Not Classified
	Sucrose CAS:57-50-1 EC:200-334-9 Index No.: -		Not Classified
Potassium nitrate CAS:7757-79-1 EC:231-818-8 Index No.: -		15.0	Oxidizing solid,Category 3,H272;Reproductive toxicity,Category 2,H361;Specific target organ toxicity - single exposure,Category 1,H370; Specific target organ toxicity - repeated exposure, Category 1,H372
Adhesive	**Stearic acid** CAS:57-11-4 EC:200-313-4 Index No.:–	8.0	Not Classified
	Polyvinyl alcohol CAS:9002-89-5 EC:618-340-9 Index No.:–		Not Classified
Functional additives (flame retardant modifiers) CAS:- EC:- Index No.:–		5.0	Not Classified

The manufacturer will take all responsibilities and commit that formula haven't used forbidden Substances and produce as above formula.

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Section 4 – First-aid Measures

Eye Contact : First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Skin Contact : Remove contaminated clothes.Rinse skin with plenty of water or shower. Refer for medical attention.

Ingestion: Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

Inhalation: Fresh air, rest.Refer for medical attention.

Protecting of first-aiders: Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Section 5 – Fire-fighting Measures

Suitable extinguishing media:

Minor fires: Extinguish the fire with dry powder, carbon dioxide or anti-solvent foam fire extinguishing agents. Major fire: Extinguish the fire with anti-solvent foam fire extinguishing agent; When a tank, truck or trailer catches fire, keep as far away from the fire source as possible or use a remote-controlled water gun or water cannon to extinguish the fire. Cool the tank with a large amount of water until the fire is extinguished.

Unsuitable extinguishing media:

Using the water curtain method to extinguish fires may be ineffective.

Specific hazards arising from the substance or mixture:

Harmful flammable gases or vapors may be produced during a fire. Heating or contact with flames may cause expansion or explosive decomposition. It can form explosive mixtures with air. Containers exposed to fire may leak contents through pressure safety valves, thereby increasing the intensity of the fire and/or vapor. Steam may move to the ignition source and flash back. Liquids and vapors are flammable. Toxic smoke may be released when burning

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Section 6 – Accidental Release Measures

Personal precautions,protective equipment and emergency procedures:

Avoid breathing vapours and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing apparatus.Wear protective and anti-static clothing. Wear chemical impermeable gloves. Fully encapsulating,vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment,do not breathe gas/ mist/ vapour/spray. Ensure adequate ventilation.Remove all sources of ignition.Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up:

Cover with Mist water,dry powder,carbon dioxide or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces. Do not touch or cross spills. Cover with anti-solvent foam to reduce evaporation. Spray water disperses the vapor and dilutes the liquid spill. Do not touch broken containers and spills before putting on appropriate protective clothing. In case of small amount of spillage, use clean non sparking tools to collect absorption materials; or dry sand or inert adsorption materials can be used to absorb the leaked substance. In case of large amount of spillage,contain a spill by bunding, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation,but can not reduce the flammability of the leakage in the restricted space. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Cut off the source of the leak as much as possible,Keep leaks in a ventilated place. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage,contain a spill by bunding. Contain spillage,and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

Reference to other sections:

Personal Protective Equipment advice is contained in Section 8 of the SDS. Disposal considerations advice is contained in Section 13 of the SDS.

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Section 7 – Handling and Storage

Protective measures:

Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes.

Measures to prevent fire:

Use only non-sparking tools. To prevent fire caused by electrostatic discharge steam,equipment on all metal parts should be grounded. Use explosion proof equipment. Keep away from heat/sparks/open flames/ hot surfaces.

Measures to prevent aerosol and dust generation: Not applicable.

Advice on general occupational hygiene:

Wash hands and face after using of the substances. Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Keep containers in a dry,cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers.

Specific end use(s): In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.

Section 8 – Exposure Controls and Personal Protection

Engineering controls:

Ensure adequate ventilation,especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/ lighting/ equipment. Set up emergency exit and necessary risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

Eye protection: Must wear appropriate safety goggles.

Hand protection: Must wear anti static chemical protective gloves.

Respiratory protection: Must wear appropriate personal dust proof gas mask.

Skin and body protection: Must wear anti static chemical protective clothing and anti static shoes.

Environmental exposure controls: No information available.

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Section 9 - Physical and Chemical Properties

Physical state: Solid

Colour: Plastic casing(containing pyrotechnic substances)

Odor: Weak odor

Odor threshold: No information available

pH: No information available

Melting point/freezing point(℃): No information available

Initial boiling point and boiling range(℃): No information available

Flash point(Closed cup,℃): No information available

Evaporation rate: No information available

Flammability: Not flammable

Upper/lower explosive limits[%(v/v)]: Upper limit：No information available；Lower limit：No information available

Vapor pressure: No information available

Vapor densityAir=1: No information available

Relative density(Water=1): No information available

Solubility(mg/L): Insoluble in water

n-octanol/water partition coefficient: No information available

Auto-ignition temperature(℃): No information available

Decomposition temperature(℃): No information available

Kinematic viscosity(mm/s): No information available

Explosive properties: Not explosive

Oxidizing properties: Not oxidizing

Particle characteristics: No information available

Information with regard to physical hazard classes: No information available

Other safety characteristics: No information available

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Section 10 - Stability and Reactivity

Stability and reactivity:

Reactivity: Contact with incompatible substances can cause decomposition or other chemical reactions.

Chemical stability: Stable under proper operation and storage conditions.

Possibility of hazardous reactions: In contact with oxidants causes severe reactions,and may cause a fire or explosion.

Conditions to avoid: Incompatible materials,heat,flame and spark.

Incompatible materials: Oxidants,alkali metals,alkaline earth metals and aluminum.

Hazardous decomposition products: Under normal conditions of storage and use,hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

Product Toxicological Data: None reported.

Dermal Toxicity Data: None reported.

Skin and Eye Irritation Data: None reported

Mutation Data: None reported

Reproductive Effects Data: None reported.

Ingredient Toxicological Data: No toxicological data available for the ingredients of this product.

Section 12 - Ecological Information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Potassium nitrate	LC50; Species: Lepomis macrochirius (Bluegill); Conditions:freshwater;static; Concentration:5500 mg/L for 24 hr /total.	LC50; Species: Daphnia magna (Water flea); Conditions:freshwater; static; Concentration: 900 mg/L for 4.2 days /total.	Not Listed
Stearic acid	LC0 - Leuciscus idus - 10 000 mg/L - 48 h.	EC50 - Daphnia magna - >4.8 mg/L - 48 h.	EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricomutum) - >0.9 mg/L - 72 h.

Chronic aquatic toxicity: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

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Section 13 – Disposal Considerations

Disposal considerations:

Waste chemicals: Before disposal should refer to the relevant national and local laws and regulation.

Contaminated packaging: Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal recommendations: Refer to section 13.1and 13.2.

Section 14 – Transport information

Proper shipping name: Not regulated

Hazard class: None

Packing group: None

Identification number: None

ADR/RID: This product is not regulated for transportation.

IMDG: This product is not regulated for transportation.

IATA: This product is not regulated for transportation.

Notice to Reader: The above transport information is provided to assist in the proper classification of this roduct and may not be suitable for all shipping conditions.

Section 15 - Regulatory Information

European Labeling in Accordance with EC Directives.

Hazard Symbols: None.

Risk Phrases: This product is not classified according to the EU regulations.

Safety Phrases: -

Inventory Status: Europe.

One or all components are listed on EINECS Inventory Status: TSCA.

The product on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory.

All ingredients used to manufacture this product are listed on the TSCA Inventor.

Section 16 - Other Information

The information in this Material Safety Data Sheet (MSDS) is believed to be accurately published. Since the product's usage and the conditions under which the chemical is used are beyond the factory's control, it is the user's responsibility to determine the technical requirements and conditions necessary for the safe use of the chemical in actual applications.

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Sample Photo

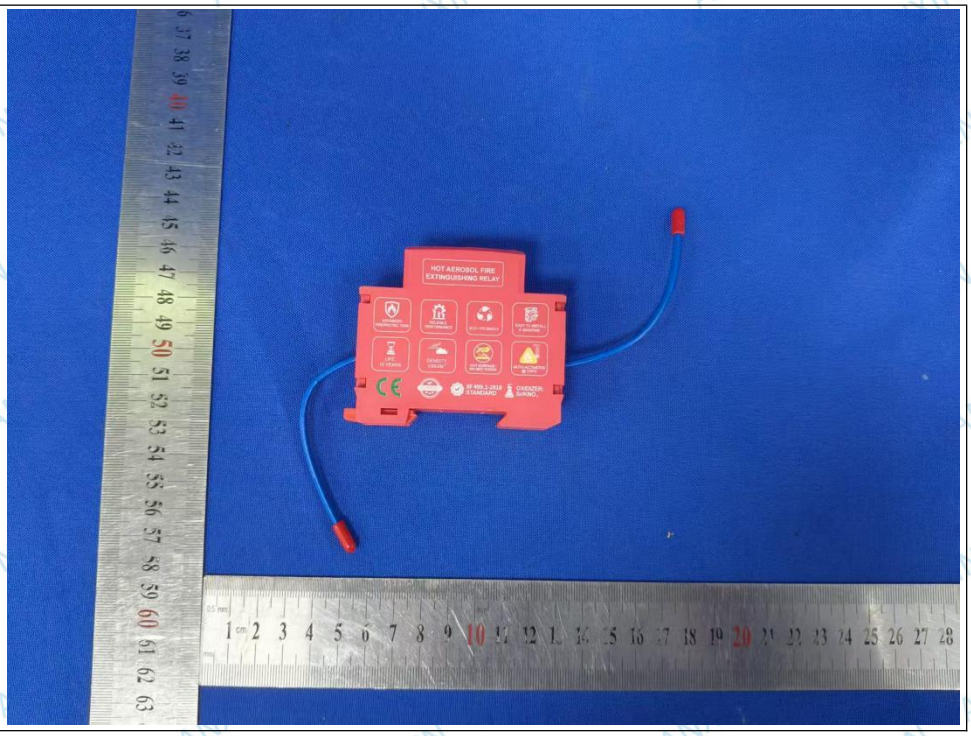
Photo 1 View: [√] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] Internal	

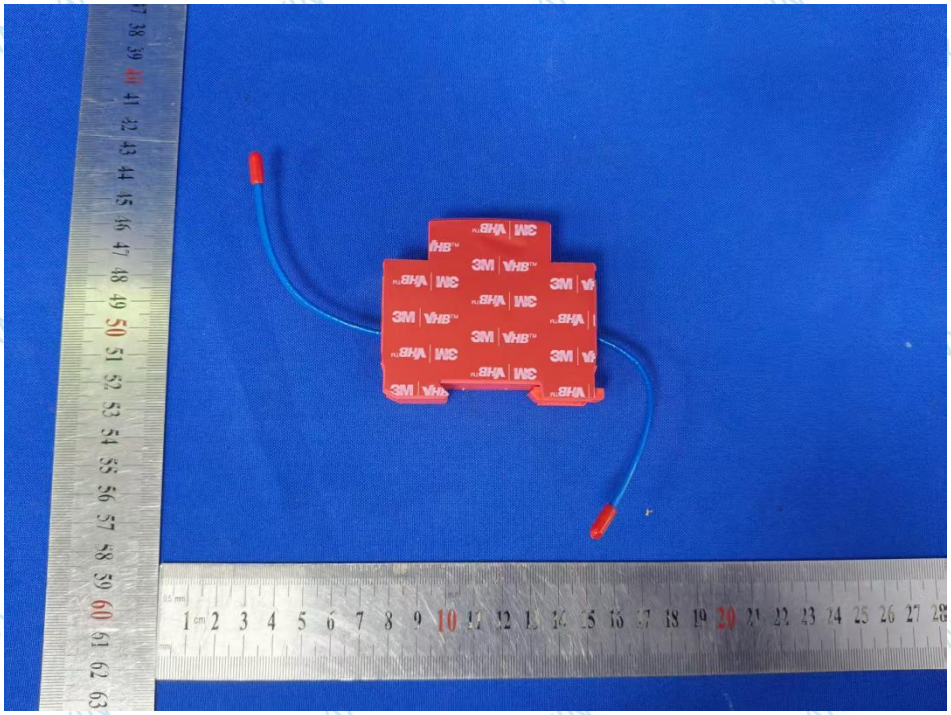
Photo 2 View: [ ] Front [√] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [ ] Internal	

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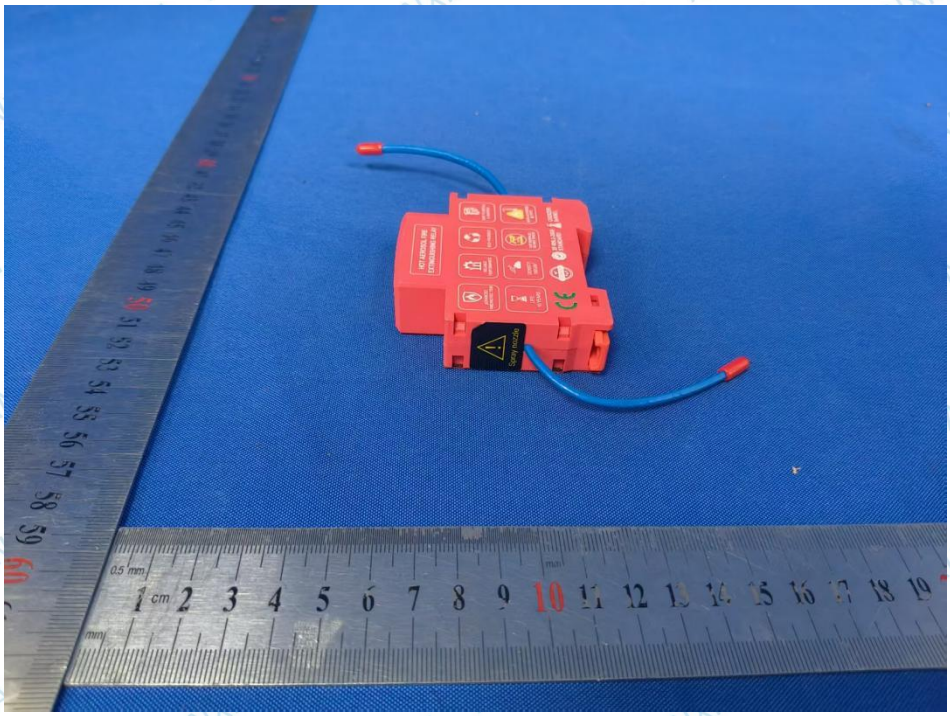
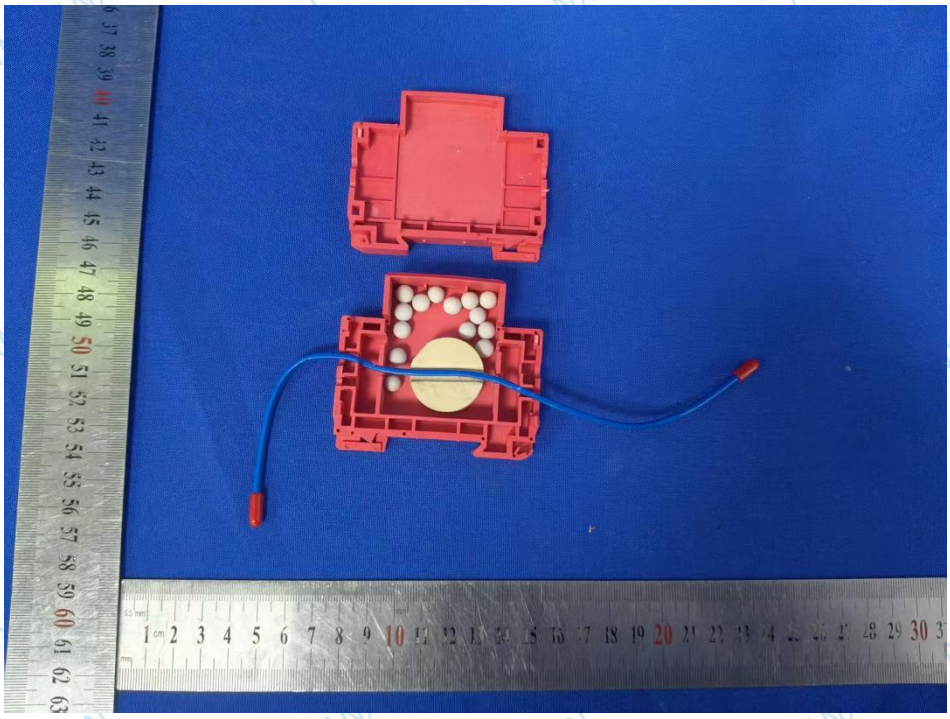
Photo 3 View: [ ] Front [ ] Rear [ ] Right side [√] Left side [ ] Top [ ] Bottom [ ] Internal	

Photo 4 View: [ ] Front [ ] Rear [ ] Right side [ ] Left side [ ] Top [ ] Bottom [√] Internal	

********** End of MSDS **********

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