



SDS

Report No. : A2220549083101001

Company Name ANHUI ANXIN HUIMING INTELLIGENT

shown on Report: TECHNOLOGY CO., LTD.

Address: ROOM 402, FOURTH FLOOR, WEST SIDE OF
A15#, GONGTOULIHENG INDUSTRIAL PLAZA,
INTERSECTION OF FANHUA AVENUE AND
WENSHAN ROAD, FEIXI COUNTY, HEFEI CITY,
ANHUI PROVINCE

Sample Name: Aerosol Forming Compound

Reviewed by:

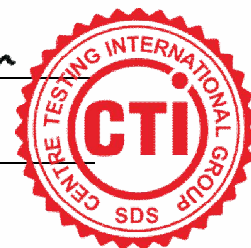
Gu CuiLi

Approved by:

Chen Kaihua

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No. R268851718

Aerosol Forming Compound

Version : V2.0.0.1

Report No. : A2220549083101001

Creation Date : 2022/12/13

Revision Date : 2022/12/13

*Prepared according to EU regulation No. 2020/878

1 Identification of the substance/mixture and of the company/undertaking

| Product identifier

Product Name	Aerosol Forming Compound
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

Relevant identified uses	Manufacture of aerosol fire extinguishing equipment.
Uses advised against	None.

| Details of the supplier of the Safety Data Sheet

Name of the company	Anhui Anxin Huiming Intelligent technology co., Ltd.
Address of the company	Room 402, fourth floor, west side of A15#, Gongtoulheng Industrial Plaza, intersection of Fanhua Avenue and Wenshan Road, Feixi County, Hefei City, Anhui Province
Post code	-
Telephone number	4001877119
Fax number	-
E-mail address	yanzhenghao431@126.com

| Emergency telephone number

Emergency telephone number	40081788119
Opening hours	24h

2 Hazards identification

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

Oxidizing Solids	Category 3
Sensitization – Skin	Category 1
Eye Damage/Irritation	Category 1

| GHS Label elements

Hazard pictograms	
Signal word	Danger

| Hazard statements

H272	May intensify fire; oxidizer
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

| Precautionary statements

u Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust/fume.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

u Response

P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see related instructions on this label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use appropriate extinguishing media mentioned in Section 5 of the SDS to extinguish.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

u Storage

Storage	Not applicable
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u Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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| Other hazards

u Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Strontium nitrate	Not applicable
Melamine	Not PBT/vPvB
Phenolic resin	Not PBT/vPvB

Potassium nitrate	Not applicable
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ii Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Strontium nitrate	Not available
Melamine	Not available
Phenolic resin	Not available
Potassium nitrate	Not available

ii Other

	Not applicable.
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3 Composition/information on ingredients

| Substance/mixture

	Mixture
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Component	Weight % content (or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
Strontium nitrate CAS : 10042-76-9 EC : 233-131-9 Index No. : -	55	Oxidizing Solids , Category 1 , H271 ; Eye Damage/Irritation , Category 1 , H318	-
Melamine CAS : 108-78-1 EC : 203-615-4 Index No. : -	25	Not Classified	-
Phenolic resin CAS : 9003-35-4 EC : 500-005-2 Index No. : -	15	Sensitization – Skin , Category 1 , H317 ; Eye Damage/Irritation , Category 2 , H319 ; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 3 , H412	-
Potassium nitrate CAS : 7757-79-1 EC : 231-818-8 Index No. : -	5	Oxidizing Solids , Category 3 , H272	-

4 First-aid measures

| Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

| Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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| Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Water.
Unsuitable extinguishing media	Dry chemical, carbon dioxide or foam.

| Specific hazards arising from the substance or mixture

1	Will not burn but increases intensity of fire.
2	Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition.
3	Has a fire-promoting effect due to release of oxygen.
4	The material may provide sufficient oxygen to make the fire fierce and self sustaining.
5	Smothering action may not be effective for established fire.
6	Development of hazardous combustion gases or vapor possible in the event of fire.
7	May expansion or decompose explosively when heated or involved in fire.

| Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures

1	Keep combustibles (wood, paper, oil, etc.) away from spilled material.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
4	Use personal protective equipment,do not breathe dust/fume.

| Environmental precautions

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

| Methods and materials for containment and cleaning up

1	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
2	Do not touch broken containers and spills before putting on appropriate protective clothing.
3	Use clean, non-sparking tools to collect absorbed material.
4	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
5	It is recommended that emergency personnel wear dust masks and wear anti-static clothing.
6	Small spills: Collect spillage with a clean shovel and place in a clean, dry, loosely closed container to remove the container from the leak.
7	A large number of leaks: wetting with water and building a dike.
8	Prevent spills from entering water bodies, sewers, basements, or confined spaces.
9	Cut off the source of the leak as much as possible.
10	Keep leaks in a ventilated place.
11	Isolation of contaminated areas and restrictions on access.
12	It is recommended that emergency personnel wear dust masks.
13	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
14	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage**| Precautions for safe handling****u Protective measures**

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

u Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
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u Measures to prevent aerosol and dust generation

1	Avoid formation of dust and aerosols.
2	Provide appropriate exhaust ventilation at places where dust is formed.

u Advice on general occupational hygiene

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

| Conditions for safe storage, including any incompatibilities

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

| Specific end use(s)

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
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8 Exposure controls/personal protection

| Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Potassium nitrate	Latvia		5		

u Biological limit values

Biological limit values	No relevant regulations
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u Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

u Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Strontium nitrate	Inhalation	No data available	No data available	No data available	7.9 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Melamine	Inhalation	No data available	No data available	No data available	8.9 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Phenolic resin	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Potassium nitrate	Inhalation	No data available	No data available	No data available	36.7 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

u Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available
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| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Physical state	Solid
Colour	Earthy yellow
Odor	Odorless
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No obvious flame
Upper/lower explosive limits[%(v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity(mm²/s)	No information available
Explosive properties	No information available

Oxidizing properties	No information available
Particle characteristics	No information available

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	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Active metal powder, non-metal elemental powder, sulfide, metal amino compound, metal acetylene compound, phenols, metal sulfamate, metal cyanide, thiocyanate, phosphide, hypophosphite, carboxylic acid, carboxylic anhydride , Carboxylic acid esters, ethanol, reducing agents and performic acid.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Phenolic resin	> 5000mg/kg(Rat)	> 2000mg/kg(Rat)	No information available
Strontium nitrate	2750mg/kg(Rat)	No information available	No information available
Potassium nitrate	3750mg/kg(Rat)	No information available	No information available
Melamine	3161mg/kg(Rat)	> 1000mg/kg(Rabbit)	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Strontium nitrate	Not Listed	Not Listed
Melamine	Category 2B	Not Listed
Phenolic resin	Not Listed	Not Listed
Potassium nitrate	Not Listed	Not Listed

| Endocrine disrupting properties

Component	Endocrine disrupting properties
Strontium nitrate	Not available
Melamine	Not available
Phenolic resin	Not available

Potassium nitrate	Not available
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| Others

Aerosol Forming Compound	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye damage(Category 1)
Skin sensitization	May cause an allergic skin reaction(Category 1)
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information
| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
Phenolic resin	No information available	EC ₅₀ : 172mg/L (48h)(Crustaceans)	No information available
Potassium nitrate	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : 490mg/L (48h)(Crustaceans)	No information available

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Potassium nitrate	NOEC : 58mg/L(Fish)	No information available	No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Melamine	High(Half-life = 360 days)	Low(Half-life = 0.44 days)
Phenolic resin	Low(Half-life = 10 days)	Low(Half-life = 0.95 days)

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Melamine	Low	BCF=38
Phenolic resin	Low	BCF=17.5

| Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Melamine	Low	20.79
Phenolic resin	Low	268

| Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Strontium nitrate	Not applicable
Melamine	Not PBT/vPvB
Phenolic resin	Not PBT/vPvB
Potassium nitrate	Not applicable

| Endocrine disrupting properties

Component	Endocrine disrupting properties
Strontium nitrate	Not available
Melamine	Not available
Phenolic resin	Not available
Potassium nitrate	Not available


13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
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 waste chemicals and contaminated packaging.

14 Transport information

| Label

Transporting Label	
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| IMDG-CODE

UN number	1479
UN proper shipping name	OXIDIZING SOLID, N.O.S.
Transport hazard class	5.1
Transport subsidiary hazard class	None

Packing group	III
Marine pollutant (Yes or no)	No

| ICAO/IATA-DGR

UN number	1479
UN proper shipping name	OXIDIZING SOLID, N.O.S.
Transport hazard class	5.1
Transport subsidiary hazard class	None
Packing group	III

| UN-ADR

UN number	1479
UN proper shipping name	OXIDIZING SOLID, N.O.S.
Transport hazard class	5.1
Transport subsidiary hazard class	None
Packing group	III

15 Regulatory information

| International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
Strontium nitrate	√	√	√	√	√	√	√	√	√
Melamine	√	√	√	√	√	√	√	√	√
Phenolic resin	√	√	×	√	√	√	√	√	√
Potassium nitrate	√	√	√	√	√	√	√	√	√

[EC inventory]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIICS]	Australian. Inventory of Industrial Chemical (AIICS)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

| European chemical inventory

Component	A	B	C	D	E	F	G
Strontium nitrate	×	×	×	√	√	×	×
Melamine	×	×	×	√	√	×	×

Phenolic resin	x	x	x	√	√	x	x
Potassium nitrate	x	x	x	√	√	x	x

- [A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
 [B] Substances requiring authorisation under EU REACH regulation
 [C] Substances restricted under EU REACH
 [D] Pre-registered substances under EU REACH
 [E] Registered substances under EU REACH
 [F] Substance Evaluation – CoRAP under EU REACH
 [G] List of priority substances under EU water policy (Directive 2455/2001/EC)

Note:

- “√” Indicates that the substance included in the regulations.
 “x” No data or not included in the regulations.

16 Other information

| Information on revision

Creation Date	2022/12/13
Revision Date	2022/12/13
Reason for revision	-

| Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
 [2] IARC, website: <http://www.iarc.fr/>.
 [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
 [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
 [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
 [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
 [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
 [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

| Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

| Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

| Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information of section 3 and section 9 is provided by the company listed in section 1 . Other information is from authoritative database and expert assessment.

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