Safety Data Sheet

Creation Date：2026/05/12

*Prepared in accordance with EU REACH Regulation (No.REACH 1907/2006) & Regulation (EC) No 1272/2008

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

1.1 Product identifier

Product Name	ABS Flame-retardant Synergistic Masterbatch
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

Relevant identified uses	Flame retardant treatment applied to plastic materials such as SAN and ABS
Uses advised against	Prohibited for use in direct contact with food

1.3 Details of the supplier of the Safety Data Sheet

Name of the company	Guangdong Guanwei New Materials Co., Ltd
Address of the company	Room 101, Building 9, No.63 Hongmei Section, Wangsha Road, Hongmei Town, Dongguan City, Guangdong Province
Post code	523000
Telephone number	+86-18046951522
Fax number	/
E-mail address	zj_daixin@2006guanwei.com

1.4 Emergency telephone number

Emergency telephone number	+86-18046951522
Opening hours	24h

2 Hazards identification

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

Carcinogenicity	Category 2

2.2 Label elements

Hazard pictoframs	
Signal word	**Warning**

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Hazard statements

H351	Suspected of causing cancer

Precautionary statements

◆ Prevention

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection

◆ Response

P308+P313	IF exposed or concerned: Get medical advice/attention

◆ Storage

P405	Store locked up

◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Antimony Trioxide	Not PBT/vPvB
Styrene-acrylonitrile Copolymer	Insufficient information, temporarily unable to evaluate
Polytetrafluoroethylene	Insufficient information, temporarily unable to evaluate

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment
Antimony Trioxide	Insufficient information, temporarily unable to evaluate
Styrene-acrylonitrile Copolymer	Insufficient information, temporarily unable to evaluate
Polytetrafluoroethylene	Insufficient information, temporarily unable to evaluate

◆ Other

	Not applicable

3 Composition/information on ingredients

3.1 Substance

	Not applicable

3.2 Mixture

Component	Weight % content(or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
Antimony Trioxide CAS: 1309-64-4 EC: 215-175-0	⩾30	Carcinogenicity, Category 2, H351	-

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Index No.: 051-005-00-X			
Styrene-acrylonitrile Copolymer CAS: 9003-54-7 EC: - Index No.: -	⩾15	Not Classified	-
Polytetrafluoroethylene CAS: 9002-84-0 EC: 618-337-2 Index No.: -	⩾5	Not Classified	-
Other Synergistic Agents CAS: - EC: - Index No.: -	⩾50	-	-

4 First-aid measures

4.1 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	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take the individual to a doctor
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention
Ingestion	Rinse mouth. Rest. 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 and prevent spread of contamination

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically
2	Symptoms may be delayed

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used

5.2 Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire
2	May expansion or decompose explosively when heated or involved in fire

5.3 Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear

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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

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible
2	Keep leaks in a ventilated place
3	Isolation of contaminated areas and restrictions on access
4	It is recommended that emergency personnel wear dust masks
5	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
6	Adhered or collected material should be promptly disposed of, in accordance with appreciate laws and regulations

6.4 Reference to other sections

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

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

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

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/hot surfaces

◆ 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

◆ Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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1	Keep containers tightly closed
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

7.3 Specific and use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses

8 Exposure controls/personal protection

8.1 Control parameters

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Antimony Trioxide	Japan - JSOH(2024 -2025)	-	0.1(as Sb)	-	-
	Permissible exposure standards for workers in the workplace	-	0.5(as Sb)	-	1.5(as Sb)
	Germany (AGS)	-	0.006	-	0.048
	United Kingdom	-	0.5	-	-
	Austria	-	0.1(inhalable aerosol)	-	0.4(inhalable aerosol)
	Finland	-	0.5	-	-

◆ Biological limit values

Biological limit values	No relevant regulations

◆ 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 and GBZ/T 160 series standard Determination of toxic substances in workplace air

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects(local)	Acute effects(systemic)	Chronic effects(local)	Chronic effects(systemic)
Antimony Trioxide	Inhalation	No data available	No data available	0.315 mg/m³	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
Styrene-acrylonitrile Copolymer	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
Polytetra fluoroethylene	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

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	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
Antimony Trioxide	135 μg/L	13.5 μg/L	3.05 mg/L	13.4 mg/kg sediment dw	2.68 mg/kg sediment dw	No hazard identified	44.3 mg/kg soil dw	No potential for bioaccumulation

Note 1：
A：Freshwater；B：Seawater；C：Sewage treatment plant；D：Sediment (freshwater)；E：Sediment (seawater)；F：Air；G：Soil；H：Secondary poisoning(Hazard for Predators)
Note 2：
The PNEC values of the remaining components not shown in the product are not available yet

8.2 Exposure controls

8.2.1 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

8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles
Hand protection	Must wear appropriate chemical protective gloves
Respiratory protection	Must wear appropriate personal respiratory protective equipment
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Particles
Colour	White
Odor	No information available
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,℃)	Not applicable

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Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit：No information available；Lower limit：No information available
Vapor pressure	Not applicable
Vapor density(Air=1)	Not applicable
Relative density(Water=1)	No information available
Solubility	No information available
N-octanol/water partition Coefficient	No information available
Auto-ignition temperature (℃)	No information available
Decomposition temperature (℃)	No information available
Kinematic viscosity	Not applicable
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	No information available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available

9.2.2 Other safety characteristics

Other safety characteristics	No information available

10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions
10.2 Chemical stability	Stable under proper operation and storage conditions
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark
10.5 Incompatible materials	No information available
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/ irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met

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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

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation，4h)
Antimony Trioxide	>34600mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Antimony Trioxide	Category 2B	Category R
Styrene-acrylonitrile Copolymer	Category 3	Not Listed
Polytetrafluoroethylene	Not Listed	Not Listed

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Antimony Trioxide	No information available
Styrene-acrylonitrile Copolymer	No information available
Polytetrafluoroethylene	No information available

11.2.2 Other information

Other information	See Section 11.1

12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Antimony Trioxide	No information available	EC_{50}: 423mg/L(48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Styrene-acrylonitrile Copolymer	Low	Low
Polytetrafluoroethylene	Low	Low

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12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Remark
Styrene-acrylonitrile Copolymer	Low	Log Kow=1.2658
Polytetrafluoroethylene	Low	-

12.4 Mobility in soil

Component	Log Koc	Remark
Styrene-acrylonitrile Copolymer	1.155	-
Polytetrafluoroethylene	-	-

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Antimony Trioxide	Not PBT/vPvB
Styrene-acrylonitrile Copolymer	Insufficient information, temporarily unable to evaluate
Polytetrafluoroethylene	Insufficient information, temporarily unable to evaluate

12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Antimony Trioxide	No information available
Styrene-acrylonitrile Copolymer	No information available
Polytetrafluoroethylene	No information available

12.7 Other adverse effects

	No information available

13 Disposal considerations

13.1 Waste treatment methods

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 and Mark

Transporting Label	Not applicable

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Special precautions for user

	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport until must be placarded and marked in accordance with relevant transporting requirements

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Antimony Trioxide	√	√	√	√	√	√	√	√	√	√	√	√	√
Styrene-acrylonitrile Copolymer	√	×	√	√	√	√	√	√	√	√	√	√	√

【A】 China Inventory of Existing Chemical Substances(IECSC)
【B】 European Inventory if Existing Commercial Chemical Substances(EC inventory)
【C】 United States Toxic Substances Control Act Inventory(TSCA)
【D】 Canadian Domestic Substances List(DSL)
【E】 New Zealand Inventory of Chemicals(NZIoC)
【F】 Philippines Inventory of Chemicals and Chemical Substances(PICCS)
【G】 Korea Existing Chemicals Inventory(KECL)
【H】 Australian. Inventory of Industrial Chemical(AIIC)
【I】 Japan Inventory of Existing & New Chemical Substances(ENCS)
【J】 Thailand Existing Chemicals Inventory(TECI)
【K】 Mexico National Inventory of Chemical Substances(INSQ)
【L】 Russia Inventory of Existing Substances(DRAFT)
【M】 Inventory of Existing Chemical Substances in Taiwan, China(TCSI)

List of Chemical Substances under International Conventions

Component	A	B	C
Antimony Trioxide	×	×	×
Styrene-acrylonitrile Copolymer	×	×	×

【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer
【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)
【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
Antiomony Trioxide	×	×	×	√	√	√	×	×	×
Styrene-acrylonitrile Copolymer	×	×	×	√	×	×	×	×	×

【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 Evalution - CoRAP under EU REACH
【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)
【H】 Substances subject to POPs Regulation
【I】 Substances proposed as POPs

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Note: "√" indicates that the substance included in the regulations; "×" No data or not included in the regulations

German water hazard class (WGK)

Component	WGK	Remark
Antimony Trioxide	WGK 1	-

【WGK 1】 Slightly hazardous to water
【WGK 2】 Obviously hazardous to water
【WGK 3】 Highly hazardous to water
【nwg】 Non-hazardous to water
【awg】 Hazardous to water in general

German technical instructions on air quality control (TA LUFT)

Component	TA LUFT	Remark
Antimony Trioxide	Chapter 5.2.2 Inorganic dusts.Class III. Also with the presence of several substances of the same class, the following values are in all not allowed to be exceeded in the exhaust gas:Mass flow:5 g/hr or Mass conc.:1 mg/m^3. Specified as Sb.	-

German technical rules for hazardous substances (TRGS)

Component	TRGS	Remark
Antimony Trioxide	TRGS 201|TRGS 400|TRGS 555|TRGS 600|TRGS 402|TRGS 401|TRGS 500|TRGS 509|TRGS 510	-

15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

16 Other information

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/
【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		

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| Disclaimer

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