



Safety Data Sheets (GHS-SDS)

Product Name: SJ4229

Revision Date: Jan 26, 2024

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Version: 4.8

Compiled in accordance with the 10th revised edition (ST/SG/AC.10/30/Rev.10 2023) of the UN GHS system..

SECTION 1: Identification

1.1 GHS Product identifier

Chemical Name POLYESTER RESIN

1.2 Other means of identification

Chemical trade name SJ4229
Molecular formula Mixture, not applicable.
Structural formula Mixture, not applicable.
Molecular weight Mixture, not applicable.
CAS number Mixture, not applicable.

1.3 Recommended use of chemical and restrictions on use

Recommended use of the product

Resin used in the production of powder coatings.

Restricted use of the product

Only for industrial, professional or research purposes, please consult the manufacturer for other information.

1.4 Supplier's details

Manufacturer Anhui Shenjian New Materials Co.,Ltd.
Address NO.8 Baoshun Road, Qiaobei Industrial Park, Wuhu Economic & Technological Development Area, Anhui Province, China
Post code 241008
Contact number +86-553-5316333
Company Fax +86-553-5316330
E-mail address of person responsible for this SDS ASJ_SDS@ 126.com
Company Website http: //www.shen-jian.com

1.5 Emergency phone number

Emergency telephone number +86-553-5316333

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Substance ☐ Mixture ☒

GHS hazard category Not classified.

2.2 GHS label elements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

Precautionary statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or with adequate ventilation.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response

P302+P352 IF ON SKIN:Wash with plenty of water.

P333+P317 If skin irritation or rash occurs: Get medical help.

P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.

P362+P364 Take off contaminated clothing and wash it before reuse.

Storage

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Disposal

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

Pictograms Not applicable.

2.3 Other hazards which do not result in classification

Handling and/or handling of this substance may generate dust that can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3: Composition/information on ingredients

Substances/Mixtures

Substances ☐ Mixtures ☒

Ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride	CAS: 552-30-7 EC: 209-008-0 REACH #: 01-2119489422-34 Index : 607-097-00-4 RTECS #: DC2050000	<1.0	Skin Sens. 1, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms.
Skin contact	Flush contaminated skin with plenty of water.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms.
Ingestion	Wash out mouth with water.Get medical attention if symptoms.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects	
Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	No known significant effects or critical hazards.
Eye contact	Causes eye irritation.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation,coughing.
Skin	No specific data.
Eye	Adverse symptoms may include the following: pain or irritation,watering,redness.
Ingestion	No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

SECTION 5: Fire-fighting measures
5.1 Suitable extinguishing media

Suitable	Use foam, CO ₂ or dry powder fire extinguishing agent.
Not suitable	Avoid using direct water to extinguish fires. Direct water may cause the splash of flammable liquids, and in severe cases, spread the fire.

5.2 Specific hazards arising from the chemical

Unusual fire/explosion hazards	No special danger.
Hazardous thermal decomposition products	In the event of a fire, harmful decomposition products may be produced, such as carbon monoxide, carbon dioxide, black smoke, aldehydes, and organic acids.

5.3 Special protective actions for fire-fighters

Firefighters should wear breathing masks ((conforming to MSHA/NIOSH requirements or equivalent)) and full protective clothing. Firefighters should put out the fire at a safe distance upwind.

Prevent firefighting water from polluting the surface and groundwater system..

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training.
Irrelevant and unprotected personnel enter. Do not touch or walk past the spilled material.
Cut off all ignition sources. No flames, smoking or flames are allowed in the hazardous area. Avoid breathing dust. Provide adequate ventilation. Wear suitable respirators when there is insufficient ventilation. Wear suitable personal protective equipment.

For emergency responders

If you need to wear special clothing to deal with spills, please refer to section 8 for information on suitable and inappropriate materials. See the information in the section "Non-emergency responders".

6.2 Environmental precautions

Avoid spreading and running away of spillage, and avoid spillage from contacting and entering the soil, rivers, sewers and sewage pipes.

May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small leak	Move the container away from the spill area. Use a vacuum cleaner to clean up or thoroughly clean up contaminants and place them in waste containers with designated labels.
Massive leaks	Move the container away from the spill area. Approach the spill from upwind. Prevent entry into sewers, waterways, basements or confined areas. Use a vacuum cleaner to clean up or thoroughly clean up contaminants and place them in waste containers with designated labels. Avoid raising dust and avoid spreading it by wind.

Note: For personal protective equipment, see section 8; for waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see section 8). No ingestion. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Prevent dust accumulation. Use only under adequate ventilation. Wear suitable respirators when there is insufficient ventilation. When transferring materials, the container and equipment should be grounded to release static electricity generated during material transportation.
Advice on general	Eating, drinking, and smoking should be prohibited in areas where this substance is handled, stored, and processed. Staff should wash their hands before eating, drinking and smoking. Before entering the eating area, remove contaminated clothing and protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage

Do not store above the following temperature: 30°C (86°F (Fahrenheit)).

Store in accordance with local regulations.

It should be stored separately from oxidizing substances and avoid mixed storage.

Avoid direct sunlight, keep away from heat and fire sources, and store in a cool, dry and ventilated place.

Packaging Materials

It is recommended to use the packaging materials allocated by the supplier.

It is not recommended to use other containers or packaging materials to prevent pollution.

Remarks

Avoid raising dust.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Occupational exposure Limits:

Ingredient name	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (CAS. 552-30-7)			
Country / Region	Occupational exposure limit (8h)		Occupational exposure limit (short time)	
	ppm	mg/m ³	ppm	mg/m ³
United States-NIOSH	0.005	0.04	—	—
South Korea	—	0.0005	—	0.002
Ireland	—	0.0005	—	0.002
Germany (AGS)	—	0.04	—	0.04
Denmark	—	0.04	—	0.04
Australia	0.005	0.039	—	—

Biological limits:

No data.

Monitoring method

EN 14042 Workplace Air A guide to procedures used to assess exposure to chemical or biological agents.

8.2 Appropriate engineering controls

Use only under adequate ventilation.

If dust, smoke, gas, vapor or mist are generated during use, please use process isolation equipment, local ventilation systems or other engineering controls to ensure that the content of airborne pollutants in the working environment of workers is below the recommended or legal limit. The process control method used should also control the concentration of gas, steam or dust below the exposure limit value.

8.3 Individual protection measures, such as personal protective equipment(PPE)

Eye/face protection

Wear safety glasses with side shields.

Skin protection

It is recommended to wear dust-proof clothing.

Respiratory protection

If the result of the risk assessment shows that it is necessary, please use a suitable breathing apparatus with a particulate filter that meets the standard. The choice of respirator must be based on known or expected exposure levels, product hazards, and safe working limits of the selected respirator.

Hand protection

If the result of the risk assessment shows that it is necessary, please always wear

chemical-resistant and impermeable gloves that meet the standards when you come into contact with chemical products.

Hygiene measures

After exposure to chemicals, wash hands, forearms and face thoroughly before meals, before smoking, before going to the toilet, and after work. Use appropriate techniques to remove clothing that may have been contaminated. Contaminated clothing needs to be washed before reuse. Ensure that the eyewash station and safety shower room are close to the workplace.

Remarks

All chemical protective gloves are suitable for use to avoid contact with skin.
The choice of gloves should be aimed at the physical protection of hands.

SECTION 9: Physical and chemical properties and safe characteristics

Physical State	Solid flake particles.
Colour	Pale white or light yellow.
Odour	Odourless.
Odor threshold	No data.
Melting point/freezing point	No data.
Boiling point, initial boiling	No data.
Flammability (solid or gas)	Not flammable, but will burn if exposed to flame or high temperature for a long time.
Lower and upper explosion	No data.
Flash point	>350 (°C) (closed cup)
Auto-ignition temperature	>350(°C)
Decomposition temperature	>350(°C)
PH	Not applicable.
Kinematic viscosity	Not applicable.
Solubility (mg/L)	Partially soluble in the following materials: diethyl ether and acetone. Insoluble in the following materials: cold water, hot water, methanol and n-octanol.
Solubility in water (mg/L)	No data.
Partition coefficient n-octanol/water(log value)	No data.
Vapour pressure(kPa)	No data.
Evaporation rate	No data.
Relative density (water = 1)	1.2
Density (g/cm ³)	1.2 (23°C)
Bulk density	600 to 750 kg/m ³
Relative vapor density (air=1)	No data.
Particle characteristics	No data.

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

This product is stable.

It is stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Under normal storage and use, hazardous chemical reactions will not occur.

10.4 Conditions to avoid

Avoid generating dust and all sources of ignition (spark or flame) during handling.

Take precautions to prevent electrostatic discharge. To prevent fire or explosion, the container and equipment should be grounded when transferring materials to release static electricity generated during material transportation. Prevent dust accumulation.

10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.

10.6 Hazardous decomposition products

Under normal storage and use conditions, hazardous decomposition products will not be produced.

SECTION 11: Toxicological information

11.1 Toxicological effects

Acute toxicity	No data.
Skin corrosion/irritation	There are no obvious known effects or serious dangers.
Serious eye damage/irritation	May cause irritation of the eye mucosa.
Respiratory or skin sensitization	

Ingredient name	Route of exposure	Species	Result
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	Respiratory skin	Man Guinea pig	Sensitising Sensitising

Germ cell mutagenicity	No data.
Carcinogenicity	No data.
Reproductive toxicity	No data.
STOT-single exposure	No data.
STOT-repeated exposure	No data.
Aspiration hazard	No data.

11.2 Information on likely routes of exposure

No data.

Potential acute health effects

Eye contact	Causes eye irritation.
Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain or irritation, watering, redness.
Inhalation	Adverse symptoms may include the following: respiratory tract irritation, coughing.
Skin contact	No specific data.
Ingestion	No specific data.

11.4 Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

General Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Reproductive toxicity No known significant effects or critical hazards.

11.5 Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity estimate

Ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	2030	N/A	N/A	N/A	N/A

SECTION 12: Ecological information**12.1 Toxicity**

No data.

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soilSoil/water partition
coefficient (K_{oc}) No data.**12.5 Results of PBT and vPvB assessment**

PBT Not applicable.

vPvB Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Disposal methods

Waste chemicals

The generation of waste should be avoided or reduced as much as possible. The disposal of products, solutions and by-products shall comply with environmental protection.

Dispose of surplus and non-renewable products through a licensed waste disposal contractor. Waste should not be discharged into the sewer without disposal, unless it fully complies with the requirements of the competent authority in all jurisdictions.

Requirements of waste disposal regulations and relevant local regulations.

Contaminated packaging

Should be recycled. Only when recycling is not feasible, should incineration or landfill be considered. Use safe methods to dispose of this product and its container.

Empty containers or linings may retain some product residues.

Avoid spreading and running away of spillage, and avoid spillage from contacting and entering the soil, rivers, sewers and sewage pipes.

13.2 Disposal considerations

Please refer to the "Disposal methods" section.

13.3 Other information

As far as the supplier currently knows, this product is not considered hazardous waste.

SECTION 14: Transport information

	UN	IMDG	IATA
<u>UN number</u>	Not regulated.	Not regulated.	Not regulated.
<u>UN proper shipping name</u>	—	—	—
<u>Transport hazard class(es)</u>	—	—	—
<u>Packing group,if applicable</u>	—	—	—
<u>Environmental hazards</u>	No	No	No
<u>Additional information</u>	—	—	—

Special precautions for user Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information**15.1 Inventory information**

<i>All substances of this material</i>											
AICS	IECSC	ENCS	NZloc	PICCS	TCSI	NCI	KECL	EINECS	TSCA	DSL	INSQ
List	List	List	List	List	List	List	List	List	List	List	List

【AICS】 Australian Inventory of Chemical Substances.

【IECSC】 The Inventory of Existing Chemical Substance in China.

【ENCS】 Japan Inventory of Existing and Notified Substances.

【NZloc】	New Zealand Inventory.
【PICCS】	Philippine Inventory of Chemicals and Chemical Substances.
【TCSI】	Taiwan Chemical Substance Inventory of china.
【NCI】	Vietnam National Chemical Inventory.
【KECL】	Korean Existing Chemicals List.
【EINECS】	European Inventory of Existing commercial Chemical Substances.
【TSCA】	Toxic Substances Control Act Inventory in U.S.A.
【DSL】	Domestic Substances List in Canada.
【INSQ】	National Inventory of Chemical Substances in Mexico.

15.2 International regulations

<i>All substances of this material</i>					
A	B	C	D	E	
Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	

- 【A】 Chemical Weapon Convention List Schedules I, II & III Chemicals
 【B】 Montreal Protocol (Annexes A, B, C, E)
 【C】 Stockholm Convention on Persistent Organic Pollutants
 【D】 Rotterdam Convention on Prior Inform Consent (PIC)
 【E】 UNECE Aarhus Protocol on POPs and Heavy Metals

SECTION 16: Other information

16.1 Revision information

Reasons for Issue	Sections 2, 9, and 15 have been revised.
Issue date	02/25/2024.
Last issue date	05/28/2021.
Version	4.8.

16.2 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: <http://www.echemportal.org/echemportal/index?page>.
 【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/>.

16.3 Abbreviations and acronyms

CAS-Chemical Abstracts Service	UN-The United Nations
PC-STEL- Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer

RPE - Respiratory Protective Equipment	PNEC –Predicted No Effect Concentration
LC ₅₀ - Lethal Concentration 50%	LD ₅₀ - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC ₅₀ - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
CMR - Carcinogens, mutagens or substances toxic to reproduction	IMDG-International Maritime Dangerous Goods
ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association	NFPA-National Fire Protection Association
ACGIH-American Conference of Governmental Industrial Hygienists	OECD-Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to the 10th revised edition of the United Nations GHS system (ST/SG/AC.10/30/Rev.10 2023). The data comes from international authoritative databases and data submitted by companies. Other information is based on the company's current knowledge that you have mastered. We try our best to ensure the accuracy of all the information in it, but due to the diversity of information sources and the limitations of the company's knowledge, this document is only for users' reference. The user of the safety data sheet should make a judgment on the rationality of the relevant information according to the purpose of use. We are not responsible for any damages caused by the operation, storage, use or disposal of this product.