

Safety Data Sheets (GHS-SDS)

Product Name: SJ5170 Revision Date: Jan 26, 2024 Issue date: Feb 25, 2024

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 SJ5170

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 Huangshan Shenjian New Materials Co.,Ltd.

Address NO.6 Zijin Road, Xunhuan Economic Park, Huizhou Area, Huangshan City,

Anhui Province, China

Post code 2415999

Contact number +86-559-3511758 Company Fax +86-559-3512668

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

+86-559-3514891

number

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Substance

 $\mathbf{\Lambda}$

Mixture

GHS hazard category

Serious eye damage/eye Category 2A

irritation

Skin sensitization Category 1
Respiratory sensitization Category 1

2.2 GHS label elements

Signal word Danger.

Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

П

Precautionary statements

Prevention

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

P264+P265 Wash face and hands thoroughly after handing. Do not touch eyes.

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/eye protection/face protection.

Response

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

P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if

present and easy to do. Continue rinsing.

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

P337+P317 If eyes irritation persists: 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



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

			Classification
Ingredient name	Identifiers	%	Regulation (EC) No.1272/2008
			[CLP]
	CAS: 552-30-7		Skin Sens. 1, H317
Benzene-1,2,4-	EC: 209-008-0		Eye Dam. 1, H318
tricarboxylic acid	REACH #: 01-2119489422-34	< 2.0	Resp. Sens. 1, H334
1,2-anhydride	Index: 607-097-00-4		STOT SE 3, H335
	RTECS #: DC2050000		
	G. G. 520 44 0		Skin Irrit. 2, H315
Benzene-1,2,4-	CAS: 528-44-9	<1.0	Eye Irrit. 2, H319
tricarboxylic acid	EC: 208-432-3 RTECS #: DC1980000	\ 1.0	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, CO₂ 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.

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 expe	osure limit (8h)	Occupational exposure limit (short time)		
Country / Region	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.

>350 (°C) (closed cup) Flash point

Auto-ignition temperature $>350(^{\circ}C)$ 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

No data.

n-octanol/water(log value)

No data.

Vapour pressure(kPa) Evaporation rate

No data.

Relative density

1.2

(water = 1)

1.2 (23°C)

Density (g/cm³) Bulk density

600 to 750 kg/m3

Relative vapor density

No data.

(air=1)

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

Ingredient name	Result	Species	Dose	Exposure
	LC ₅₀ Inhalation	Rat - Male, Female	>2.33 mg/l	4 hours
	Dusts and mists			
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	_
CAS 552-30-7	LD ₅₀ Oral	Rat - Female	>2030 mg/kg	_
C/18 332 30 7	LD ₅₀ Oral	Rat - Male	>3340 mg/kg	_
	LD ₅₀ Oral	Rat - Male, Female	>2730 mg/kg	_
D 104.1 1 1	LC ₅₀ Inhalation	Rat	$> 3750 \text{ mg/m}^3$	4 hours
Benzene-1,2,4-tricarboxylic	Dusts and mists			
acid CAS 528-44-9	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	
0110 020 11)	LD ₅₀ Oral	Rat - Male, Female	>2730 mg/kg	

Skin corrosion/irritation

Ingredient name	Result	Species	Score	Exposure	Observation
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	Skin - Oedema Skin - Erythema/Eschar	Rabbit Rabbit		8	24 to 72 hours 24 to 72 hours
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	Skin - Mild irritant	Rabbit		4 hours 0.5 g	

Serious eye damage/irritation

Ingredient name	Result	Species	Score	Exposure	Observation
	Eyes - Cornea opacity	Rabbit	4	0.1g	24 hours
Benzene-1,2,4-tricarboxylic	Eyes - Iris lesion	Rabbit	2	0.1g	24 hours
acid 1,2-anhydride CAS 552-30-7	Eyes - Redness of the conjunctivae	Rabbit	3	0.1g	24 hours
	Eyes - Oedema of the conjunctivae	Rabbit	4	0.1g	24 hours
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	Eyes - Irritant	Rabbit	_		

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
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	Respiratory skin	Rat Mammal - species unspecified	Not sensitizing Not sensitizing

Germ cell mutagenicity

Ingredient name	Test	Experiment	Result
	OECD 471 Bacterial	Experiment: In vitro	Negative
	Reverse Mutation	Subject: Bacteria	
		Metabolic activation:	

		Without & with	
	OECD 473 In vitro	Experiment: In vitro	Negative
	Mammalian Chromosomal	Subject: Mammalian-Animal	
Benzene-1,2,4-tricarboxylic	Aberration Test	Cell: Germ	
acid 1,2-anhydride CAS 552-30-7		Metabolic activation:	
CAS 332-30-7		Without & with	
	OECD 476 In vitro	Experiment: In vitro	Negative
	Mammalian Cell Gene	Subject: Mammalian-Animal	
	Mutation Test	Cell: Germ	
		Metabolic activation:	
		Without & with	
	OECD 471 Bacterial	Experiment: In vitro	Negative
	Reverse Mutation	Subject: Bacteria	
		Metabolic activation:	
		Without & with	
Benzene-1,2,4-tricarboxylic acid	OECD 476 In vitro	Experiment: In vitro	Negative
CAS 528-44-9	Mammalian Cell Gene	Subject: Mammalian-Animal	
CAS 320-44-7	Mutation Test	Cell: Germ	
	OECD 473 In vitro	Experiment: In vitro	Negative
	Mammalian Chromosomal	Subject: Mammalian-Animal	
	Aberration Test	Cell: Germ	

Carcinogenicity

No data.

Reproductive toxicity

Ingredient name	Maternal toxicity	Fertility	Develop mental toxin	Species	Dose	Exposure
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	_	Negative		Rat	Inhalation: 500 μg/m³ (NOAEC)	6 hours per day
	_	Negative		Guinea pig	Inhalation: 500 μg/m³ (NOAEC)	6 hours per day
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	_	_	Negative	Rat - Female	Inhalation: 0.5 μg/m ³ (NOEL)	6 hours per day

STOT-single exposure

Ingredient name	Category	Route of exposure	Target organs
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	Category 3	_	Respiratory tract irritation
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	Category 3	_	Respiratory tract irritation

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

Ingredient name	Result	Species	Dose	Exposure
	Sub-chronic	Rat - Male, Female	10000 mg/kg/day	_
Benzene-1,2,4-tricarboxylic	NOAEL Oral		(Highest tested dose)	
acid 1,2-anhydride	Sub-acute LOAEC	Rat - Male, Female	0.2 mg/m ³	6 hours /day;
CAS 552-30-7	Inhalation Dusts			5 days per week
	and mists			
	Sub-acute	Rat - Male, Female	300 mg/kg/day	4 weeks;
Benzene-1,2,4-tricarboxylic	NOEL Oral			5 days per week
acid	Sub-acute LOAEC	Rat - Male, Female	$300 \mu g/m^3$	6 hours /day;
CAS 528-44-9	Inhalation Dusts		(Highest tested dose)	5 days per week
	and mists			

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

I 1:	Oral	Dermal	Inhalation (gases)	Inhalatio(vapours)	Inhalation(dusts
Ingredient name	mg/kg	mg/kg	(ppm)	(mg/l)	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
Benzene-1,2,4-tricarboxylic					

acid	2730	N/A	N/A	N/A	N/A
CAS 528-44-9					

SECTION 12: Ecological information

12.1 Toxicity

Ingredient name	Res	sult	Species	Exposure
Benzene-1,2,4-tricarboxylic	Acute $EC_{50} > 739 \text{ mg/l}$	Fresh water	Algae	96 hours
acid 1,2-anhydride	Acute EC ₅₀ $>$ 792 mg/l	Fresh water	Daphnia	48 hours
CAS 552-30-7	Acute LC ₅₀ $>$ 957 mg/l	Fresh water	Fish	96 hours
Benzene-1,2,4-tricarboxylic	Acute $EC_0 > 792 \text{ mg/l}$	Fresh water	Daphnia	48 hours
acid	Acute $LC_0 > 1000 \text{ mg/l}$	Fresh water	Fish	96 hours
	Acute NOEC>739 mg/l	Fresh water	Algae	96 hours

12.2 Persistence and degradability

Ingredient name	Test	Result	Dose	Inoculum
Benzene-1,2,4-tricarboxylic	OECD 301B	77.4%-28 days	_	_
acid 1,2-anhydride	Ready Biodergradability-CO ₂			
CAS 552-30-7	Evolution Test			
Benzene-1,2,4-tricarboxylic	OECD 301B	>60%-7 days	_	_
acid	Ready Biodergradability-CO ₂			
CAS 528-44-9	Evolution Test			

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7		_	Readily
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9		_	Readily

12.3 Bioaccumulative potential

Ingredient name	$LogP_{ow}$	BCF	Potential
Benzene-1,2,4-tricarboxylic acid 1,2-anhydride CAS 552-30-7	0.06		low
Benzene-1,2,4-tricarboxylic acid CAS 528-44-9	0.95	3.2	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

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.
UN proper shipping name	_	_	_
Transport hazard class(es)	_	_	_
Packing group, if applicable	_	_	_
Environmental hazards	No	No	No
Additional information	_	_	_

<u>Special precautions for user</u> 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

	All substances of this material									
AICS IECSC ENCS NZloc PICCS TCSI NCI KECL EINECS TSCA DSL IN						INSQ				
I	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

All substances of this material								
A B C D E								
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)

LE 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/.

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 Leve IARC - International Agency for Research on Cancer

PNEC -Predicted No Effect Concentration RPE - Respiratory Protective Equipment

LC₅₀ - Lethal Concentration 50% LD₅₀ - Lethal Dose 50%

NOEC -No Observed Effect Concentration EC₅₀ - 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 IMDG-International Maritime Dangerous Goods

reproduction

ICAO/IATA-International Civil Aviation

NFPA-National Fire Protection Association Organization/International Air Transportation Association

ACGIH-American Conference of Governmental Industrial OECD-Organization for Economic Co-operation and Development

Hygienists

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 the 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.