

## Safety Data Sheet (SDS) Report

Applicant: Liaoning Honggang Chemicals Co., Ltd

Wanhe 2 Road, National Aromatics Base, Hongwei District,

Liaoyang City, Liaoning Prov, China

SDS number: P2019091212S1

2022-07-12

Issue Date:

#### Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : Pigment Red 224

Physical State : Powder

Data Received : Jun 30, 2022

Data Reviewed : Jul 12, 2022

#### Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated according to requirements of Regulation (EC) No 1907/2006 (REACH) with its amendment Commission Regulation (EU) 2020/878, Regulation (EC) No 1272/2008, for details please refer to attached pages.

#### Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai

Anna Wang Technical Manager This report shall not be reproduced except in full, without the written approval of the laboratory.



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 7/12/2022 Revision date: 7/12/2022 Version: 1.0 SDS Number: P2019091212S1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance Substance name : Pigment Red 224

Chemical name : Perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-tetrone

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Use according to manufacturer's directions

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Liaoning Honggang Chemicals Co., Ltd

Wanhe Erlu, Nationla Aromatics Base, Hongwei District, Liaoyang City, Liaoning Prov, China

Tel: 0086-419-7675988; 0086-419-7675289; 0086-15141925666

E-mail: Sales@liangangchem.com

#### 1.4. Emergency telephone number

No additional information available

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

## 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : Pigment Red 224 CAS-No. : 128-69-8

Name	Product identifier	%
Perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-tetrone	CAS-No.: 128-69-8	99.5

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Name	Product identifier	%
	EC-No.: 204-905-3	
	CAS-No.: 7732-18-5 EC-No.: 231-791-2	0.5

## 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to

breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center or a doctor if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : On combustion forms: carbon oxides

Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. For further information refer to section

8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

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#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers.

Minimise generation of dust. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide

good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep container closed when

not in use. Store in a well-ventilated place. Keep cool.

Suitable container : Lined metal can, lined metal pail/ can.

Plastic pail.

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

## 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Perylo[3,4-cd:9,10-c'd']dipyran- 1,3,8,10-tetrone	Dermal 33.3 mg/kg bw/day (Systemic, Chronic) Inhalation 1.25 mg/m³ (Systemic, Chronic) Inhalation 1.25 mg/m³ (Local, Chronic) Inhalation 1.25 mg/m³ (Systemic, Acute) Dermal 16.7 mg/kg bw/day (Systemic, Chronic) * Oral 10 mg/kg bw/day (Systemic, Chronic) *	Not Available

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\* Values for General Population

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment:

Avoid all unnecessary exposure.

#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166. Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves. Wear suitable gloves tested to EN374

## 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

## Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid (Powder)
Colour : Uniformity or Brilliant.
Odour : Not available

Odour threshold Not available : Not available Melting point Freezing point : Not applicable Boiling point : Not available Flammability : Non flammable. **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available : Not available : Not available pH solution : Not applicable Viscosity, kinematic : Not available Solubility Partition coefficient n-octanol/water (Log Kow) : Not available

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: Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : Not available : Not available Relative density Relative vapour density at 20 °C : Not applicable Not available Particle size Particle size distribution Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area Not available Particle dustiness : Not available

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

Perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-tetrone (128-69-8)	
LD50 dermal rat	> 2500 mg/kg
LC50 Inhalation - Rat	> 0.41 mg/l/4h
LD50 oral rat	> 10 000 mg/kg bw

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Rabbit: not irritating [OECD 404]

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

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Reproductive toxicity

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Rabbit: not irritating [OECD 405]

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Mouse:not sensitized [OECD 429]

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Salmonella typhimurium TA98, TA100, TA1535, TA1537, TA1538: Negative [OECD 471]

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

NOAEL: 1000 mg/kg bw/day

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

#### 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

## SECTION 12: Ecological information

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

(acute)

 $\label{thm:long-term} \mbox{Hazardous to the aquatic environment, long-term}$ 

: Not classified (Based on available data, the classification criteria are not met)

(chronic)

## Perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-tetrone (128-69-8)

LC50 - Fish [1] > 5000 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

## 12.2. Persistence and degradability

#### **Pigment Red 224**

Persistence and degradability Not established.

## 12.3. Bioaccumulative potential

## **Pigment Red 224**

Bioaccumulative potential Not established.

## Perylo[3,4-cd:9,10-c'd']dipyran-1,3,8,10-tetrone (128-69-8)

Partition coefficient n-octanol/water (Log Pow) < 1.3 (at 25 °C (at pH 4)

## 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

The substance is not PBT / vPvB.

## 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

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## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
4.3. Transport hazard c	lass(es)		,	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
4.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	n available	'	,	

## 14.6. Special precautions for user

#### Overland transport

Not regulated

## Transport by sea

Not regulated

## Air transport

Not regulated

## Inland waterway transport

Not regulated

#### Rail transport

Not regulated

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

## 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

No REACH Annex XVII restrictions

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#### **REACH Annex XIV (Authorisation List)**

Pigment Red 224 is not on the REACH Annex XIV List

#### **REACH Candidate List (SVHC)**

Pigment Red 224 is not on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Pigment Red 224 is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

#### **POP Regulation (Persistent Organic Pollutants)**

Pigment Red 224 is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Ozone Regulation (1005/2009)

Pigment Red 224 is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

Water hazard class (WGK) : WGK 1.

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the Hazardous Incident Ordinance (12. BlmSchV)

**Switzerland** 

Storage class (LK) : NG - Non-hazardous

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Effective concentration for 50 percent of test population (median effective concentration)	
EN	European Standard	

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Abbreviations and acronyms:		
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)	
LD50	Lethal dose for 50 percent of test population (median lethal dose)	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.