





# DESIGN REPORT OF SAFETY DATA SHEET

No.:220100320424654E Date:Nov.22,2022

			H: ITI				
Name of the sample	4,4'-Methylene-bis(2	-chloroaniline					
Applicant	Binhai Xingguang Chemical Co., Ltd. 检验检测专用章 3204						
Supplier	Binhai Xingguang Che	emical Co.,Ltd					
Composition of the sample	4,4'-Methylene-bis(2-chloroaniline):=99%, Moisture=1%						
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS(GHS)Ninth revised edition						
Design Result of SDS please see next page.							
Designer	计过位	Approver	For and on behalf of CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司				

授权签字人Authorized Signature (S)

Notes: This SDS is valid before the implementation of the Tenth revised edition GHS.

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# **Section 1 Product and Company Identification**

Identifier **Product** 

> 4,4'-Methylene-bis(2-chloroaniline) **Product Name**

**Synonyms** 

CAS No. 101-14-4 EC No. 202-918-9 Molecular Formula C13H12Cl<sub>2</sub>N<sub>2</sub>

### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Please consult manufacturer. Uses

**Uses Advised Against** Please consult manufacturer.

# >Details of the Supplier of the Safety Data Sheet

**Applicant Name** Binhai Xingguang Chemical Co.,Ltd.

Linbai Road, New Coal Chemical Synthetic Material Base, Huaibei City, Anhui **Application Address** 

Province, China

235100 **Applicant Post Code** 

**Applicant Telephone** +86-13336134914

**Applicant Fax** 

Joey@chemball.com **Applicant E-mail** 

Binhai Xingguang Chemical Co.,Ltd. **Supplier Name** 

Linbai Road, New Coal Chemical Synthetic Material Base, Huaibei City, Anhui **Supplier Address** 

Province, China

235100 **Supplier Post Code** 

Supplier Telephone +86-13336134914

Supplier Fax

Joey@chemball.com Supplier E-mail

## >Emergency Phone Number

**Emergency Phone** 

+86-571-8627 3270 Number

#### **Section 2 Hazards Identification**

Hazard class and label elements of the product according to GHS (the ninth revised edition):

#### >GHS Hazard Class





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**Acute Toxicity- Oral** Germ Cell Mutagenicity Carcinogenicity Hazardous To The Aquatic Environment - Category 4 Category 2 Category 1

Category 1

Short-Term(Acute) Hazard **Hazardous To The** Aquatic Environment -

Long-Term (Chronic)

Hazard

Category 1

#### >GHS Label Elements

**Pictogram** 



Signal Word

#### Danger

#### >Hazard Statements

Harmful if swallowed H302

Suspected of causing genetic defects H341

May cause cancer

H350 Very toxic to aquatic H400

Very toxic to aquatic life with long lasting effects H410

# >Precautionary Statements

Prevention

Obtain,read and follow all safety instructions before use. P203

Wash hands and other contact area thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270

Avoid release to the environment. P273

Wear protective gloves/protective clothing/eye protection/face protection/hearing

P280 protection.

Response

IF exposed or concerned,get medical advice. P318

P330 Rinse mouth. P391 Collect spillage.

P301+P317 IF.SWALLOWED:Get medical

Storage

P405 Store locked up.

**Disposal** 

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P501

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

## Section 3 Composition/Information on Ingredients

Component CAS No. EC No. Concentration (weight percent,%)

4,4'-Methylene-bis(2-chloroaniline) 101−14−4 202−918−9 ≥99

### Section 4 First Aid Measures

### >Description of First Aid Measures

Immediate medical attention is required. Show this safety data sheet (SDS) to the

doctor in attendance.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if

Eye Contact feel uncomfortable.

Take off contaminated clothing and shoes immediately. Wash off with plenty of water

**Skin Contact** for at least 15 minutes and consult a physician if feel uncomfortable.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call

Ingestion

Inhalation

a physician or Poison Control Center immediately.

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 Ensure that medical personnel are aware of the substance involved. Take precautions

First-aiders to protect themselves and prevent spread of contamination.

#### >Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## >Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

# Section 5 Fire Fighting Measures

#### >Extinguishing Media

Suitable Extinguishing

Media

Unsuitable

**Extinguishing Media** 

Dry chemical, carbon dioxide or alcohol-resistant foam.

Do not use a solid water stream as it may scatter or spread fire.

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### >Specific Hazards Arising from the Substance or Mixture

- Containers may explode when heated.
- Fire exposed containers may vent contents through pressure relief valves.
- May expansion or decompose explosively when heated or involved in fire.

## >Advice for Firefighters

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

- Fight fire from a safe distance, with adequate cover.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### Section 6 Accidental Release Measure

### >Personal Precautions, Protective Equipment and Emergency Procedures

- Ensure adequate ventilation. Remove all sources of ignition.
- Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

#### >Environmental **Precautions**

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

### >Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by 1 bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# **Section 7 Handling and Storage**

### >Precautions for Handling

- Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- Avoid contact with skin and eyes.
- Keep away from heat/sparks/open flames/ hot surfaces.
- Take precautionary measures against static discharges.

## >Precautions for Storage

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

#### **Section 8 Exposure Controls/Personal Protection**

#### >Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value	e -Eight Hours	Limit Value -Short Term		
	Country/ Region	ppm	mg/m³	ppm	mg/m³	
4.4'-Methylene-bis(2-chloroaniline)	USA-NIOSH		0.003			
	South Korea	0.01	0.11			
	Ireland		0.005			
	France	0.02	0. 22	*		
	Denmark	0.01	0.11	0.02	0. 22	
	Australia	0.02	0.22			

Biological Limit Values No information available

#### **Monitoring Methods**

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of

- exposure to chemical and biological agents.
- GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

### >Engineering Controls

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

#### >Personal Protection Equipment

**Eye Protection** Tightly fitting safety goggles (approved by EN 166(EU)or NIOSH(US).

Wear protective gloves (such as butyl rubber), passing the tests according to EN

374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US)or type AXBEK(EN 14387) Respiratory protection

respirator cartridges.

Skin and **Body** 

Wear fire/flame resistant/retardant clothing and antistatic boots. **Protection** 

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公司: 中国检验认证集团江苏有限公司 电话 (Tel):+86-519-83277160

Hand Protection

地址: 中国. 常州市天宁区青洋北路47号 网址: www.ccicis.com





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# **Section 9 Physical and Chemical Properties**

Appearance: Light yellow flaky

Odor Threshold: No information available Melting Point/Freezing Point (°C): 110

Flash Point(°C)(Closed Cup):Not applicable

Flammability: No information available Vapor Pressure (KPa): Not applicable

Relative Density(Water=1):1.44

n-Octanol/Water Partition Coefficient:2.5

**Decomposition Temperature(°C):** No information

available

Particle characteristics: No information available

Odor: No information available pH: No information available

Initial Boiling Point and Boiling Range (℃):202

**Evaporation Rate:** Not applicable

Upper/lower explosive limits[%(vlv)]: Upper limit:No information available: Lower limit: No information available

Relative Vapour Density(Air=1): Not applicable

Solubility: Insoluble in water

Auto-Ignition Temperature(°C): No information available

Kinematic Viscosity (mm²/s): Not applicable

# **Section 10 Stability and Reactivity**

Contact with incompatible substances can cause decomposition or other chemical Reactivity

reactions.

**Chemical Stability** Stable under proper operation and storage conditions.

In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and Possibility of Hazardous

release hydrogen. Reactions

Incompatible materials, heat, flame and spark. **Conditions to Avoid** 

Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal **Incompatible Materials** 

oxide, acyl halide and metal phosphide.

Under normal conditions of storage and use, hazardous decomposition products **Hazardous** 

**Decomposition products** should not be produced.

#### Section 11 **Toxicological Information**

# >Acute Toxicity

Component	CAS No.	LDso(Oral)	LDso(Dermal)	LCso(Inhalation, 4h)
4,4'-Methylene-bis( 2-chloroaniline)	101-14-4	1140mg/kg(Rat)	>5000mg/kg(Rabbit)	No information available

### >Skin Corrosion/Irritation





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No information available

# >Serious Eye Damage/Irritation

No information available

#### >Skin Sensitization

No information available

# >Respiratory Sensitization

No information available

### >Germ Cell Mutagenicity

Suspected of causing genetic defects(Category 2)

## >Carcinogenicity

	ID	CAS No.	Component	IARC	NTP
	1	101-14-4	4,4'-Methylene-bis(2-chloroaniline)	Category 1	Not Listed
>	-	ductive Toxic		BALL	
>	Repro	ductive Toxic	eity(Additional)		
	No ii	nformation availab	le		
>	STOT-	Single Expos	ure		
		nformation availab	le		

# >Reproductive Toxicity

# >Reproductive Toxicity(Additional)

# >STOT-Single Exposure

# >STOT-Repeated Exposure

No information available

## >Aspiration Hazard

No information availabl

# **Section 12 Ecological Information**

# >Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
4,4'-Methylene-bis (2-chloroaniline)	101-14-4	LCso:0.61mg/L	EC50:0.92mg/L(48h)	ErCso:>0.85mg/L(72h)

网址: www.ccigjs.com





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(96h)(Fish)

## >Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
4,4'-Methylene-bis (2-chloroaniline)	101-14-4	No information available	NOEC:0.0095mg/L	NOEC:0.54mg/L

#### >Others

Persistence and No information available Degradability No information available **Bioaccumulative Potential** No information available Mobility in Soil

Results of PBT and vPvB Assessment

4,4'-Methylene-bis(2-chloroaniline) does not meet the criteria for PBT and vPvB

according to Regulation(EC)No 1907/2006,annex XII.

# **Section 13 Disposal Considerations**

Waste Chemicals Contaminated Packaging

Disposal Recommendations Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to Waste chemicals and Contaminated packaging.

#### Section 14 **Transport** Information

Transporting Label

Marine pollutant Yes **UN Number** 3077

UN Proper Shipping

Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport Hazard Class

**Transport Subsidiary** 

NONE

Hazard Class

Packing Group

(Description: The graphic "fish and tree" is transport marking.)

# Section 15 Regulatory Information

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# >International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZ1oC	PICCS	KEC1I	AICS	ENCS
4,4'-Methylene-bis(2 -chloroaniline)		<b>√</b>	<b>√</b>	<b>√</b>	√	√	√	√	<b>√</b>

[EINECS] 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] Existing and Evaluated Chemical Substances.
 [ Australia Inventory of Chemical Substances.
 [ ENCS] Existing And New Chemical Substances.

Note

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Section 16	Additional	
	Additional	OI III MUIOII

CreationDateNov.22,2022RevisionDateNov.22,2022

Reason for Revision -

#### >Disclaimer

This Safety Data Sheet(SDS) was prepared according to UN GHS(the 9th revised edition). 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.

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邮编 (P.C.):213000

<sup>&</sup>quot;\" Indicates that the substance included in the regulations

<sup>&</sup>quot;x"That no data or included in the regulations





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# Terms of the Using of the Report

- 1. The report is issued by CCIC according to the information of the chemicals and the information of the chemical of the chemical of the information of the chemical of t
- 2. According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
- 3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
- 4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
- 5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
- 6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
- 7. The partly duplicating of this report is prohibited without the written approver of CCIC.
- 8. The report is invalid when anything of the following happens-illegal transfer,embezzlement, imposture, modification or tampering in any media form.

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