









DESIGN REPORT OF SAFETY DATA SHEET

No.: 220100320418261E

Date: Jul.25,2022

				. A: [7] .				
Name of the sample	Toluene			是				
Applicant	ZHENGZHOU BATO	NG INDUST	RIAL CO.,LTD.	检验检测专用章 3201				
Supplier	ZHENGZHOU BATC	NG INDUST	RIAL CO.,LTD.					
Composition of the sample	Toluene: 99.9%							
Warranty of Design	GLOBALLY HARM LABELLING OF CHI							
	Design Result of SDS please see next page.							
Designer	孙拉拉	Approver	中国检验认证	alf of NGSU CO., LTD. 正集团江苏有限公司 王珍				

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

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

地址:中国,常州市天宁区青洋北路 47号

网址: www.ccicjs.com

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

邮编 (P.C.): 213000

Page 1 of 12





SAFETY DATA SHEET

SDS

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

Date: Jul.25.2022

Section 1 Product and Company Identification

> Product Identifier

Product Name

Toluene

Synonyms

- 6

CAS No.

108-88-3

EC No.

203-625-9

Molecular Formula

C7H8

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

Relevant Identified

Uses

Please consult manufacturer.

Uses Advised Against

Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name

ZHENGZHOU BATONG INDUSTRIAL CO., LTD.

Application Address

GUAN DI MIAO Village, YU LONG Town, XING YANG City

Applicant Post Code

450100

Applicant Telephone

+86-371-68538712

Applicant Fax

Applicant E-mail

Sales@batongchem.com

Supplier Name

ZHENGZHOU BATONG INDUSTRIAL CO.,LTD.

Supplier Address

GUAN DI MIAO Village, YU LONG Town, XING YANG City

Supplier Post Code

450100

Supplier Telephone

+86-371-68538712

Supplier Fax

Supplier E-mail

Sales@batongchem.com

> Emergency Phone Number

Emergency Phone

Number

+86-371-68538723

Section 2 Hazards Identification

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

> GHS Hazard Class

Flammable Liquids

Category 2

Page 2 of 12

公司: 中国检验认证集团江苏有限公司 电话 (Tel): +86-519-83277160 地址:中国.常州市天宁区青洋北路 47 号 网址: www.ccicjs.com

Add: 47 Qingyang North Road, Tianning District, Changzhou, China





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.25,2022

Aspiration Hazard

Skin

Category 1
Category 2

Corrosion/Irritation

Specific Target Organ

Toxicity (Single

Exposure): Narcotic

Effects

Category 3

Category 2

Category 2

Category 2

Reproductive Toxicity

Specific Target Organ

Toxicity (Repeated

Exposure)

Hazardous To The

Aquatic Environment -

Short-Term (Acute) Hazard

Hazardous To The

Aquatic Environment –

Long-Term (Chronic)

Category 3

Hazard

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H225 Highly flammable liquid and vapour

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

> Precautionary Statements

Prevention

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

Page 3 of 12

公司: 中国检验认证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国.常州市天宁区青洋北路 47 号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

网址: www.ccicjs.com





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

SDS

Date: Jul.25.2022

Edition)

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands and other contact area thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

protection.

Response

P318 IF exposed or concerned, get medical advice.

P319 Get medical help if you feel unwell.

P321 Specific treatment (see measures on this label).

P331 Do not induce vomiting.

P301+P316 IF SWALLOWED:Get emergency medical help immediately.

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

P332+P317 If skin irritation occurs: Get medical help.

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

P370+P378 In case of fire: Use suitable extinguishing medium to extinguish.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected

areas with water [or shower].

Storage

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

电话 (Tel): +86-519-83277160

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, %)

Toluene 108-88-3 203-625-9 99.9

Section 4 First Aid Measures

Page 4 of 12

公司:中国检验认证集团江苏有限公司 地址:中国,常州市天宁区青洋北路 47 号

网址: www.ccicis.com

Add: 47 Qingyang North Road, Tianning District, Changzhou, China





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS Date: Jul.25,2022

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

feel uncomfortable.

Skin Contact

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

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

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

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

Inhalation

abla

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

Extinguishing Media

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

> Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
- Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

电话 (Tel): +86-519-83277160

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

Page 5 of 12

公司:中国檢验认证集团江苏有限公司 地址:中国.常州市天宁区青洋北路 47 号 Add: 47 Qing

8.常州市天宁区青洋北路 47 号 Add: 47 Qingyang North Road, Tianning District, Changzhou, China

岡址: www.ccicjs.com

邮編 (P.C.): 213000





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.25,2022

- 2 Fight fire from a safe distance, with adequate cover.
- 3 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

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

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

> Methods and Materials for Containment and Cleaning Up

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

Section 7 Handling and Storage

> Precautions for Handling

- Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

Page 6 of 12

公司: 中国检验认证集团江苏有限公司 电话 (Tel): +86-519-83277160 地址:中国、常州市天宁区青洋北路 47 号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

网址: www.ccicjs.com





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS Date: Jul.25,2022

> Precautions for Storage

- 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.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

		Limit Value	- Eight Hours	Limit Value - Short Term		
Component	Country/Region	ppm	mg/m³	ppm	mg/m³	
	USA - OSHA	200	-	300	-	
Toluene 108-88-3	South Korea	50	188	150	560	
	Ireland	50	192	100	384	
	Germany (AGS)	50	190	200	760	
	Denmark	25	94	50	188	
	Australia	50	191	150	574	

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

- 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.

> Personal Protection Equipment

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

Hand Protection 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 a full-face respirator variety respirator cartridges.

网址: www.ccicis.com

Skin and Body Wear fire/flame resistant/retardant clothing and antistatic boots.

Page 7 of 12

公司: 中国检验认证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国.常州市天宁区青洋北路 47号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.25,2022

Protection

Section 9 Physical and Chemical Properties

Appearance: Colorless liquid

Odor Threshold: No information available

Melting Point/Freezing Point (°C): -95

Flash Point (°C)(Closed Cup): 4

Flammability: Not applicable

Vapor Pressure (KPa): 3.8

Relative Density(Water=1): 0.87

n-Octanol/Water Partition Coefficient: 2.69

Decomposition Temperature (°C): No information

available

Particle characteristics: Not applicable

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): 111

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: 7.1;

Lower limit: 1.1

Relative Vapour Density(Air=1): 3.1

Solubility: Insoluble in water

Auto-Ignition Temperature(°C): 480

Kinematic Viscosity (mm²/s): No information available

Section 10 Stability and Reactivity

Reactivity Contact with incompatible substances can cause decomposition or other chemical

reactions.

Chemical Stability Stable under proper operation and storage conditions.

Possibility of Hazardous

Reactions

In contact with halides may cause an active reaction.

Conditions to Avoid

Incompatible materials, heat, flame and spark.

Incompatible Materials

Halides, Oxidantss and halogen.

Hazardous

Under normal conditions of storage and use, hazardous decomposition products

Decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Toluene	108-88-3	636mg/kg(Rat)	No information available	49mg/L(Rat)

Page 8 of 12

公司:中国检验认证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国,常州市天宁区青洋北路 47 号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

阿址: www.ccicjs.com





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS Date: Jul.25,2022

> Skin Corrosion/Irritation

Causes skin irritation(Category 2)(Toluene)

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	108-88-3	Toluene	Category 3	Not Listed

> Reproductive Toxicity

Suspected of damaging fertility or the unborn child(Category 2)(Toluene)

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

May cause drowsiness or dizziness(Category 3)(Toluene)

> STOT-Repeated Exposure

May cause damage to organs through prolonged or repeated exposure(Category 2)(Toluene)

> Aspiration Hazard

May be fatal if swallowed and enters airways(Category 1)(Toluene)

Section 12 Ecological Information

> Acute Aquatic Toxicity

	Component	CAS No.	Fish	Crustaceans	Algae
--	-----------	---------	------	-------------	-------

Page 9 of 12

公司: 中国检验认证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国.常州市天宁区青洋北路 47号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

网址: www.ccicjs.com





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.25,2022

Toluene 108-88-3 LC50: 25mg/L (96h)(Fish) EC₅₀: 4.1mg/L (48h) ErC₅₀: 29mg/L (72h)

> Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae	
Toluene	108-88-3	No information available	NOEC: 1.2mg/L	NOEC: 9.1mg/L	

> Others

Persistence and Degradability

Bioaccumulative

Potential

Mobility in Soil

Results of PBT and vPvB Assessment

No information available

No information available

No information available

Toluene does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

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

No

UN Number

1294

UN Proper Shipping

TOLUENE

Name

3

Transport Hazard Class Transport Subsidiary

Hazard Class

NONE

Packing Group

П

Section 15 **Regulatory Information**

Page 10 of 12

公司: 中国检验从证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国。常州市天宁区青洋北路 47 号

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

网址: www.ccicjs.com 邮编 (P.C.): 213000





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Waltanty of Besign. One (Minter No.

SDS

Date: Jul.25,2022

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Toluene	V	V	V	V	V	V	1	V	V

[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.
 [AICS] Australia Inventory of Chemical Substances.
 [ENCS] Existing And New Chemical Substances.

Note

Section 16 Additional Information

Creation Date

Jul.25,2022

Revision Date

Jul.25.2022

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.

Page 11 of 12

公司: 中国检验认证集团江苏有限公司

电话 (Tel): +86-519-83277160

地址:中国。常州市天宁区青洋北路 47号

网址: www.ccicjs.com

Add: 47 Qingyang North Road, Tianning District, Changzhou, China

[&]quot;\" Indicates that the substance included in the regulations

[&]quot;x" That no data or included in the regulations





SAFETY DATA SHEET

No.: 220100320418261E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Jul.25,2022

Terms of the Using of the Report

- The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
- 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.

Page 12 of 12

公司: 中国检验认证集团江苏有限公司 电话 (Tel): +86-519-83277160 地址:中国,常州市天宁区青洋北路 47 号

网址: www.ccicjs.com

Add: 47 Qingyang North Road, Tianning District, Changzhou, China