

Design Report of Safety Data Sheet

No.: JST2021120365E Date: 2021/12/16

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Name of the sample	Methyl Ethyl Ketone						
Applicant	ZHENGZHOU BATO	ZHENGZHOU BATONG INDUSTRIAL CO.,LTD					
Supplier	ZHENGZHOU BATO	CHENGZHOU BATONG INDUSTRIAL CO.,LTD					
Composition of the sample	Methyl Ethyl Ketone: 99.5%						
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eighth revised edition						
	Design Result o	of SDS please see next page.					
Designer	杨秋慧	For and on behalf of CCIC JIANGSU CO., LTD. Approve中国检验认证集团江苏有限公司					

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







Add.: 47 Qingyang North Road, Tianning

Distribution, Changzhou, China

Warranty of Design: GHS (Eighth Revised Edition)

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Section 1 Product and Company Identification

> Product Identifier

Product Name Methyl Ethyl Ketone

Synonyms

CAS No. 78-93-3

EC No. 201-159-0

Molecular Formula C₄H₈O

> 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 Guandimiao Village, Yulong Town, Xingyang City

Applicant Post Code 450100

Applicant Telephone +86-371-68538712

Applicant Fax +86-371-68538725

Applicant E-mail Sales@batongchem.com

Supplier Name ZHENGZHOU BATONG INDUSTRIAL CO.,LTD

Supplier Address Guandimiao Village, Yulong Town, Xingyang City

Supplier Post Code 450100

Supplier Telephone +86-371-68538712 **Supplier Fax** +86-371-68538725

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 eighth revised edition):

> GHS Hazard Class

Flammable Liquids Category 2

Eye Damage/Irritation Category 2A





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Specific Target Organ

Toxicity (Single

Category 3

Exposure)

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H225

Highly flammable liquid and vapour

H319

Causes serious eye irritation

H336

May cause drowsiness or dizziness

> Precautionary Statements

Prevention

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

sources. No smoking.

P233 Keep container tightly closed.

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.

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

P264 Wash contact area thoroughly after handling.

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

Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P280 Response

P319 Get medical help if you feel unwell.

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

P337+P317 If eye irritation persists: Get medical help.

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].

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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.





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Disposal

P501

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

Section 3 Composition/Information on Ingredients

Component

Concentration (weight percent, %)

CAS No.

EC No.

Methyl Ethyl Ketone

99.5

78-93-3

201-159-0

Section 4 First Aid Measures

> 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

Ingestion

Inhalation

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.

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

First-aiders

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

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

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

> Specific Hazards Arising from the Substance or Mixture

- Will form explosive mixtures with air.
- Fire exposed containers may vent contents through pressure relief valves thereby increasing fire





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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

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

- 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.
- 4 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.





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- 2 Use only non-sparking tools.
- 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.

> 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	
Methyl Ethyl Ketone 78-93-3	USA - OSHA	200	590	-	-	
	South Korea	200	590	300	885	
	Ireland	200	600	300	900	
	Germany (AGS)	200	600	200	600	
	Denmark	50	145	100	290	
	Australia	150	445	300	890	

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.

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邮编 (P.C.): 213000

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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 Hand Protection

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

If exposure limits are exceeded or if irritation or other symptoms are

Respiratory protection experienced, use a full-face respirator with multi-purpose combination (US) or

type AXBEK (EN 14387) respirator cartridges.

Skin and

Body

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

Protection

Section 9 **Physical and Chemical Properties**

Appearance: Colorless liquid.

Odor Threshold: No information available

Melting Point/Freezing Point (°C): -86

Flash Point (°C)(Closed Cup): -9

Flammability: Not applicable

Vapor Pressure (KPa): 10.5 (20°C)

Relative Density(Water=1): 0.81 (20°C)

n-Octanol/Water Partition Coefficient: 0.29

Decomposition Temperature (°C): No information Kinematic Viscosity (mm²/s): No information

available

Particle characteristics: Not applicable

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): 80

Evaporation Rate: No information available

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

11.5; Lower limit: 1.8

Relative Vapour Density(Air = 1): 2.41

Solubility: Partly miscible with water

Auto-Ignition Temperature(°C): 505

available

Section 10 Stability and Reactivity

Contact with incompatible substances can cause decomposition or other Reactivity

chemical reactions.

Chemical Stability Stable under proper operation and storage conditions.

Possibility of

Hazardous Reactions

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

Incompatible Materials

Oxidants, chloroform, bromoform and other organic solvents.

In contact with oxidants may cause a fire or an explosion.

Hazardous

Decomposition

Under normal conditions of storage and use, hazardous decomposition

products should not be produced. products

Toxicological Information Section 11

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> Acute Toxicity

Component	mponent CAS No. L		LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Methyl Ethyl Ketone	78-93-3	2737mg/kg(Rat)	6480mg/kg(Rabbit)	32mg/L(Mouse)

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(Methyl Ethyl Ketone)

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	78-93-3	Methyl Ethyl Ketone	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

May cause drowsiness or dizziness(Category 3)(Methyl Ethyl Ketone)

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information





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> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Methyl Ethyl Ketone	78-93-3	LC ₅₀ : 3220mg/L (96h)(Fish)	EC ₅₀ : 5090mg/L (48h)	ErC ₅₀ : >1200mg/L (72h)

> Chronic Aquatic Toxicity

Component CAS No.		Fish	Crustaceans	Algae	
Methyl Ethyl Ketone	78-93-3	No information available	NOEC: 100mg/L	NOEC: 93mg/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

Methyl Ethyl Ketone does not meet the criteria for PBT and vPvB according to

Regulation (EC) No 1907/2006, annex XIII.

Disposal Considerations Section 13

Waste Chemicals

Before disposal should refer to the relevant national and local laws and

regulation. Recommend the use of incineration disposal.

Contaminated **Packaging** Disposal

Recommendations

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

None

UN Number

1193

UN Proper Shipping

Name

ETHYL METHYL KETONE(METHYL ETHYL KETONE)

Transport Hazard Class

Transport Subsidiary

3

Hazard Class

NONE

Packing Group

II

Regulatory Information Section 15

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> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Methyl Ethyl Ketone	√	√	√	√	√	√	√	√	√

[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

"\" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date 2021/12/16
Revision Date 2021/12/16
Reason for Revision

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th 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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