Effective Date: 2020/05/31

DG2048429E

SAFETY DATA SHEET

Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG)

SDS

JIANGSU DYNAMIC CHEMICAL CO., LTD.

According to GHS (Eighth Revised Edition)

Section 1 Product and Company Identification

> Product Identifier

Product Name

Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG)

Synonyms

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CAS No.

111-76-2

EC No.

203-905-0

Molecular Formula

C₆H₁₄O₂

> 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

JIANGSU DYNAMIC CHEMICAL CO., LTD.

Application Address

NO.2, BAILONG ROAD, NANJING CHEMICAL INDUSTRY PARK, CHINA

Applicant Post Code

210047

Applicant Telephone

+86-25-57098560

Applicant Fax

+86-25-58392527

Applicant E-mail

WR@CHINATIANYIN.COM

Supplier Name

JIANGSU DYNAMIC CHEMICAL CO., LTD.

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Supplier E-mail

WR@CHINATIANYIN.COM

> Emergency Phone Number

Emergency Phone

Number

+86-25-57098565

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 4 Acute Toxicity - Oral Category 4

Acute Toxicity -

Dermal

Category 3

Skin

Corrosion/Irritation Eye Damage/Irritation Category 2

Category 2A

Acute Toxicity -Inhalation

Category 4

> GHS Label Elements

Pictogram



Signal Word Danger

> Hazard Statements

H227 Combustible liquid H302 Harmful if swallowed H311 Toxic in contact with skin H315 Causes skin irritation H319 Causes serious eve irritation H332 Harmful if inhaled

> Precautionary Statements

Prevention

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

sources. No smoking.

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

P264 Wash thoroughly after handling.

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

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312 Call a POISON CENTER/doctor, if you feel unwell.

P321 Specific treatment (see first aid measures on this label).

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell.

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

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

P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse. P361+P364

In case of fire: Use dry chemical, carbon dioxide or alcohol-resistant foam to P370+P378 extinguish.

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

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

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.

Disposal

Ingestion

Inhalation

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

3. Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG)	≥ 99	111-76-2	203-905-0

> Description of First Aid Measures

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

the doctor in attendance.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a **Eye Contact**

physician if feel uncomfortable.

Take off contaminated clothing and shoes immediately. Wash off with plenty of **Skin Contact**

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 Ensure that medical personnel are aware of the substance involved. Take First-aiders 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 **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 May emit poisonous fumes on fire.
- 2 Containers may explode when heated.
- 3 Fire exposed containers may vent contents through pressure relief valves.
- 4 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

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 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

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 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

Total Pational L	Aposare silline ratae					
Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term		:
Component		ppm	mg/m³	ppm	mg/m³	

Ethylene glycol monobutyl ether(EB\BCS); BUTYL GLYCOL (BG) 111-76-2	USA - OSHA	50	240	-	-
	South Korea	20	97	-	_
	Ireland	20	98	50	246
	Germany (AGS)	10	49	40	196
	Denmark	20	98	40	196
	Australia	20	96.9	50	242

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.
- 2 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

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

type AXBEK (EN 14387) respirator cartridges.

Skin and Body War County Count

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

Section 9 Physical and Chemical Properties

Appearance: Colorless transparent liquid

Odor: No information available

PH: No information available

Melting Point/Freezing Point (℃): -75 Initial Boiling Point and Boiling Range (℃): 171

Flash Point (°C) (Closed Cup): 63.2 Evaporation Rate: No information available

Flammability: Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit: 12.7; Lower limit: 1.1

Vapor Pressure (KPa): 0.1 Relative Vapour Density(Air = 1): 4.1

Relative Density(Water=1): 0.9 Solubility: Miscible with water

n-Octanol/Water Partition Coefficient: 0.830 Auto-Ignition Temperature(°C): 238

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

available available

Particle characteristics: Not applicable

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

No information available

Conditions to Avoid

Incompatible materials, heat, flame and spark.

Incompatible Materials

No information available

Hazardous

products

Decomposition

Under normal conditions of storage and use, hazardous 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)
Ethylene glycol monobutyl ether(EB\BCS); BUTYL GLYCOL (BG)	111-76-2	470mg/kg(Rat)	220mg/kg(Rabbit)	2.175mg/L(Rat)

> Skin Corrosion/Irritation

Causes skin irritation(Category 2)(Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG))

> Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG))

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP	
	1 111-76-2	Ethylene glycol	o entrementa di dialemente de transporte de la servicio de la composició d	and the second section of the second section is a second s	
1 1		monobutyl	C 3		
		ether(EB\BCS);BUTYL	Category 3	Not Listed	
		GLYCOL (BG)			

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12: Ecological Information

> Acute Aquatic Toxicity

Component	CAS No.	Fish Crustaceans		Algae
Ethylene glycol monobutyl ether(EB\BCS);B UTYL GLYCOL (BG)	111-76-2	LC₅o: 1370mg/L (96h)(Fish)	EC ₅₀ : >1000mg/L (48h)	ErC ₅₀ : >1000mg/L (72h)

> Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae	
Ethylene glycol monobutyl ether(EB\BCS);B UTYL GLYCOL (BG)	111-76-2	No information available	NOEC: >100mg/L	NOEC: 130mg/L	

> Others

Persistence and Degradability

Bioaccumulative

Potential

No information available

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

Ethylene glycol monobutyl ether(EB\BCS);BUTYL GLYCOL (BG) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex

Section 13 Disposal Considerations

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 section 13.1 and 13.2.

Section 14 Transport Information

Transporting Label



Marine pollutant

None

UN Number

2810

UN Proper Shipping

Name

TOXIC LIQUID, ORGANIC, N.O.S.

Transport Hazard Class

Transport Subsidiary

NONE

Hazard Class

NON

Packing Group

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Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Ethylene glycol monobutyl		.1		,					
ether(EB\BCS);BUT YL GLYCOL (BG)	V	V	V	V	V	٧	٧	V	٧

[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

"V" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date

2020/05/31

Revision Date Reason for Revision 2020/05/31

> 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.



南京海关危险货物与包装检测中心国家化学品分类鉴别与评估重点实验室





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- 11



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南京海关危险货物与包装检测中心国家化学品分类鉴别与评估重点实验室





GHS 标签审核报告

Report of GHS Label Evaluation

	11d 391: 2 3103/31A						
样品名称	乙二醇丁醚检验检测专用章						
申请单位	江苏德纳化学股份有限公司						
GHS 标签来源	申请单位提供						
审核依据	联合国《全球化学品统一分类和标签制度》(GHS)第八修订版						
GHS 标签	见本报告附件						
审核结论	申请单位所提交的 GHS 标签_符合_联合国《全球化学品统一分类和标签制度》(GHS) 第八修订版的相关要求。						
审核	华 签发 豆乳核						

注:申请单位所提交标签已由本中心审核确认(盖中心骑缝章为准),并作为本报告附件。本报告有效期至2021年05月30日。

一一报告结束——



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