Effective Date: 2017/01/17

SAFETY DATA SHEET

Ethylene glycol monobutyl ether SDS acetate (BAC)

JIANGSU DYNAMIC CHEMICAL CO., LTD.

According to GHS (Sixth Revised Edition)

Section 1 Product and Company Identification

> Product Identifier

Product Name

Ethylene glycol monobutyl ether acetate (BAC)

Synonyms

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CAS No.

112-07-2

EC No.

203-933-3

Molecular Formula

C8H16O3

> 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

1-A22-1 BAILONG ROAD, NANJING CHEMICAL INDUSTRY PARK, CHINA

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Applicant Post Code

210047

Applicant Telephone

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Applicant Fax
Applicant E-mail

709929706@gg.com

Manufacturer Name

JIANGSU DYNAMIC CHEMICAL CO., LTD.

Manufacturer

Address

Manufacturer Post

Manufacture Code 210047

Manufacturer Telephone

+86-25-58391612

Manufacturer Fax

+86-25-57092798

Manufacturer E-mail

709929706@qq.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 sixth revised edition):

> GHS Hazard Class

Flammable Liquids

Category 4

Acute Toxicity - Oral

Category 5

Acute Toxicity -

Category 4

Dermal

Acute Toxicity -

Inhalation

Category 4

> GHS Label Elements

Pictogram



Signal Word

Warning

> Hazard Statements

H227

Combustible liquid

H303

May be harmful if swallowed

H312

Harmful in contact with skin

H332

Harmful if inhaled

> Precautionary Statements

Prevention

P210

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

sources. No smoking.

P261

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

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.

P302+P352

IF ON SKIN: Wash with plenty of water.

P304+P340

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

P362+P364

Take off contaminated clothing and wash it before reuse.

Storage

P403

Store in a well-ventilated place.

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.

2-butoxyethyl acetate

Commercial secrets

112-07-2

203-933-3

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.

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

Ingestion 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. 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

Inhalation

Protecting of

First-aiders

Unsuitable **Extinguishing Media** Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.

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

> Specific Hazards Arising from the Substance or Mixture

Containers may explode when heated.

2 Fire exposed containers may vent contents through pressure relief valves.

3 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.
- Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 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

- 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

| | Aposare zinne value | | - Eight Hours | Limit Value - Short Term | | |
|--------------------------------------|---------------------|-----|---------------|--------------------------|-------|--|
| Component | Country/Region | ppm | mg/m³ | Limit Value | mg/m³ | |
| 2-butoxyethyl acetate 112-07-2 | USA - NIOSH | 5 | 33 | - | - | |
| | South Korea | 20 | 131 | - | - | |
| | Ireland | 20 | 133 | 50 | 333 | |
| | Germany (AGS) | 20 | 130 | 80 | 520 | |
| 1.2 07 2 | Denmark | 20 | 130 | 40 | 260 | |
| | Australia | 20 | 133 | 50 | 333 | |

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 160.1~GBZ/T 160.81-2004 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.

Body

> Personal Protection Equipment

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

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

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

type AXBEK (EN 14387) respirator cartridges.

Skin and

Protection

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

Section 9 Physical and Chemical Properties

Odor: No information available Appearance: Colorless transparent liquid pH: No information available Odor Threshold: No information available

Initial Boiling Point and Boiling Range (°C): 192 Melting Point/Freezing Point (°C): -64

Evaporation Rate: No information available Flash Point (°C)(Closed Cup): 71

Upper/lower explosive limits[%(v/v)]: Upper limit : Flammability: Not applicable

8.5; Lower limit: 0.9

Vapor Density (g/mL): 5.5 Vapor Pressure (MPa): 31Pa Solubility: Miscible with water Relative Density (g/cm³): 0.94

Auto-Ignition Temperature(°C): 340 n-Octanol/Water Partition Coefficient: 1.51

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

available available

Particle characteristics: Not applicable

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

No information available

Conditions to Avoid

Incompatible materials, heat, flame and spark.

Incompatible Materials

No information available

Hazardous

Under normal conditions of storage and use, hazardous decomposition

Decomposition

products should not be produced.

products

Section 11 Toxicological Information

> Acute Toxicity

| Component CAS No. | | LD ₅₀ (Oral) | LD ₅₀ (Dermal) | LC ₅₀ (Inhalation, 4h) | |
|--------------------------|----------|-------------------------|---------------------------|-----------------------------------|--|
| 2-butoxyethyl acetate | 112-07-2 | 2400mg/kg(Rat) | 4500 (l (D | No information | |
| | | | 1500mg/kg(Rabbit) | available | |

> Skin Corrosion/Irritation

No information available

> 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 | 112-07-2 | 2-butoxyethyl acetate | Not Listed | Not Listed |

> 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

No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability Bioaccumulative Potential

No information available

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

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

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 13.1and 13.2.

Section 14 Transport Information

Transporting Label

Not applicable

UN Number

UN Proper Shipping

Name

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport Hazard Class

None

Transport Subsidiary

None

Hazard Class Packing Group

Section 15 Regulatory Information

> International Chemical Inventory

| Component | EINECS | TSCA | DSL | IECSC | NZI ₀ C | PICCS | KECI | AICS | ENCS |
|---------------|--------|----------|----------|-------|--------------------|----------|------|------|------|
| 2-butoxyethyl | √ | √ | √ | √ | √ | √ | √ | √ | √ |

[EINECS] European Inventory of Existing Commercial Chemical Substances.

United States Toxic Substances Control Act Inventory. [TSCA]

Canadian Domestic Substances List. [DSL]

China Inventory of Existing Chemical Substances. [IECSC]

New Zealand Inventory of Chemicals. [NZIoC]

Philippines Inventory of Chemicals and Chemical Substances. [PICCS]

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

Existing And New Chemical Substances. [ENCS]

Note

"\" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date

2017/01/17

Revision Date

2017/01/17

Reason for Revision

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th 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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