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C R SCIENCE DEVELOPMENT CO., LTD

ADD: 1A-4-505 RUANJIANYUAN ROAD, HIGH-TECH INDUSTRIAL PARK, DALIAN, LIAONING, CHINA

TEL: +86-411-39034986; TAX ID: 91210204744382056M; Zip Code: 116021

Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: Butyl acetate .

Other means of identification: /

Recommended use of the chemical and restrictions on use:

Supplier's details:

Emergency phone number:

Section 2 HAZARDS IDENTIFICATION

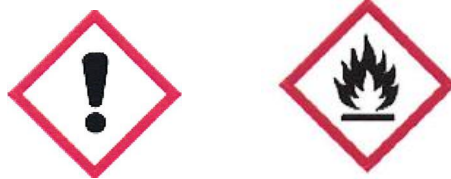
Classification of the substance or mixture:

Flammable liquids Category 3

Specific target organ toxicity, single exposure Category 3 (narcotic effects)

GHS Label elements, including precautionary statements:

Symbol:



Signal word: Warning

Hazard statement(s): Flammable liquid and vapour. May cause drowsiness or dizziness.

Precautionary statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use non-sparking tools. Take action to prevent static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Use outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:

In case of fire: Use spray, foam or dry powder to extinguish. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal:

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

Other hazards which do not result in classification: /

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Butyl acetate	123-86-4	99.8%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures



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If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Remove contaminated clothing and rinse with plenty of running water.

In case of eye contact: Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician.

If ingestion: Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, dry powder, water spray, etc.

Special hazards arising from the chemical: Flammable liquid. Its steam can form an explosive mixture with air. It can explode when exposed to high heat or open flame and release toxic gas.

Special protective actions for fire-fighters: Firefighters must wear air breathing apparatus, fire-fighting suits and protective gloves to extinguish in the upwind direction. Whenever possible, remove the container from the fire to open space and use spray water to cool unopened containers.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: It is recommended that emergency personnel wear protective masks and fire protective overalls. Do not touch the spill directly.

Environmental precautions: Isolate contaminated areas and restrict access.

Methods and materials for containment and cleaning up: Small amount of leakage: adsorption with sand or other inert materials. Do not allow products to enter restricted areas such as sewers. A large amount of leakage: building a dike or digging a pit to contain. Transfer to a tank truck or special collector with an explosion-proof pump and transport to a waste disposal site for disposal.

Section 7 HANDLING AND STORAGE

Precautions for safe handling: There should be sufficient local exhaust in workplace. Operators should be trained and strictly follow the operating procedures. Operators are advised to wear protective masks, anti-static protective clothing and rubber gloves. Operators should load and unload lightly during handling to prevent damage to the package. There should be leakage treatment equipment in workplace. There may be harmful residues in empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated warehouse. Keep away from fire and heat. Protect from direct sunlight. The package should be sealed and not exposed to moisture. It should be stored separately from oxidants, flammable materials, etc., and should not be mixed. The storage area should be provided with suitable materials to contain spills.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:			
Source	Material name	TWA	STEL
China Occupational Exposure Limits for Hazardous Agents in the Workplace	Butyl acetate	200 mg/m ³	300 mg/m ³
Appropriate engineering controls: Close strictly and provide sufficient local exhaust.			



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Individual protection measures

Eye/face protection: Wear a protective mask.

Skin protection: Wear anti-static protective clothing.

Respiratory protection: Type A Filter of sufficient capacity.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Transparent liquid.
Colour	Colorless.
Odour	/
Melting point/freezing point	-76.8°C.
Boiling point or initial boiling point and boiling range	126.5°C.
Flammability	Flammable .
Lower and upper explosion limit/flammability limit	1.7%-7.6%.
Flash point	28.5°C.
Auto-ignition temperature	421°C.
Decomposition temperature	/
pH	/
Kinematic viscosity	/
Solubility	Immiscible
Partition coefficient: n-octanol/water (log value)	0.05.
Vapour pressure	1.33kPa (20°C).
Density and/or relative density	0.88.
Relative vapour density	4.0.
Particle characteristics	/

Section 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: This material is stable in normal temperature.

Possibility of hazardous reactions: reacts with water on standing to form acetic acid and n-butyl alcohol reacts violently with strong oxidisers and potassium tert-butoxide is incompatible with caustics, strong acids and nitrates dissolves rubber, many plastics, resins and some coatings Esters react with acids to liberate heat along with alcohols and acids. Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products.

Heat is also generated by the interaction of esters with caustic solutions. Flammable hydrogen is generated by mixing esters with alkali metals and hydrides. Esters may be incompatible with aliphatic amines and nitrates.

Conditions to avoid: Spark, high temperature, static electricity, strong acids and bases.

Incompatible materials: Flammable materials and oxidizers.

Hazardous decomposition products: Oxycarbides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Ingestion (swallowing), skin/eye exposure and inhalation.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects:



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Ingestion can cause symptoms such as nausea, vomiting and abdominal pain.

Skin contact can cause redness and irritation.

Inhalation can cause cough, throat irritation and dizziness.

Eyes contact can cause redness and irritation.

Chronic health effects: Repeated or prolonged contact with skin may cause dryness and cracking.

Numerical measures of toxicity (such as acute toxicity estimates):

LD50(Oral, rabbit): 3200 mg/kg

LC50 (Inhalation, rat): 1.36 - 2.38 mg/l

Section 12 ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available): /

Persistence and degradability: Low.

Bioaccumulative potential: Low (BCF = 14).

Mobility in soil: Low (KOC = 20.86).

Other adverse effects: /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

Section 14 TRANSPORT INFORMATION

UN number: 1123.

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3.

Packing group, if applicable: III.

Environmental hazards: /

Special precautions for user: /

Transport in bulk according to IMO instruments: /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GB/T 15098-2008, GBZ 2.1-2019, GBZ 2.2-2007 as well as the following regulations: Railway Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
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Form Date	26-Nov-2020
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Note: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.



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Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.

C R SCIENCE DEVELOPMENT CO., LTD.
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Menzhichao