

SDS Report

No. SHAEC1113756903

Date: Sep. 16, 2011

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This report is to supersede Report No. SHAEC1113756901, Date: Sep.9, 2011

Weifang Yixing Chemical Technology Co.Ltd
Shihua road, No 206, Changyi, Shandong, China

SGS Ref. No. : TJ1080907
Sample Name : sec-Butyl Acetate
End Uses : Paint, ink solvents; synthetic resin solvent; spices, pharmaceutical solvent; thinner
Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report
Job Receiving Date : Aug.25, 2011
Last Information Date : Aug.31, 2011
SDS Preparation Period : Aug.25~Sep.02, 2011

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006 and Regulation (EC) No 1272/2008, and is provided per attached.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Lindy Liu

Lindy Liu
Lab Manager

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Safety Data Sheet

Regulation(EC) No.1907/2006, 1272/2008

Printing date 16.09.2011

Revision: 31.08.2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** *sec-Butyl Acetate*
- **Article number:** *Data not available.*
- **Registration number:** *Data not available.*
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**
Paint, ink solvents; synthetic resin solvent; spices, pharmaceutical solvent; thinner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*Weifang Yixing Chemical Technology Co.Ltd
Shihua road, No 206, Changyi, Shandong, China
Tel: 0536-7218626; 13685369227
Fax: 0536-7218626*
- **Only Representative/ other EU contact point:**
Buyer is not located in European Union. European Union Member State contact not available.
- **Further information obtainable from:** *Weifang Yixing Chemical Technology Co.Ltd*
- **Emergency telephone number:**
*Bertha Yuan
Mobile Phone: 13685369227*
- **Email:** *yxrd@wfyixingchem.com*
- **Reference Number:** *TJ1080907; SHAEC1113756903*

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Highly flammable

R11: Highly flammable.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02
- **Signal word** *Danger*

- **Hazard-determining components of labelling:** *Not applicable.*

- **Hazard statements**

H225 Highly flammable liquid and vapour.

- **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.*
- P102 Keep out of reach of children.*
- P103 Read label before use.*
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P240 Ground/bond container and receiving equipment.*
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Additional information:**
Important! This product contains substance that is of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 and 16 of this Safety Data Sheet.
- **Other hazards** Not applicable.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture: consisting of the following components.
For the wording of the listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 105-46-4 EINECS: 203-300-1 Index number: 607-026-00-7	sec-butyl acetate  F R11 R66 ⚠ Flam. Liq. 2, H225	99,2%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol  F R11 ⚠ Flam. Liq. 2, H225	0,178%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	0,15%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate  Xi R36;  F R11 R66-67 ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	0,013%
CAS: 79-20-9 EINECS: 201-185-2 Index number: 607-021-00-X	methyl acetate  Xi R36;  F R11 R66-67 ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	0,012%
CAS: 78-92-2 EINECS: 201-158-5 Index number: 603-127-00-5	butanol  Xi R36/37 R10-67 ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335+H336	0,005%

- **Non-dangerous component:**

Heavy fraction	0,442%
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- **Remark :**
Heavy fraction is a mixture composed of some micro substances, which are non-hazardous according to CLP and Directive 1999/45/EC and would not affect the overall classification of the mixture based on the declaration provided by client.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth with water.

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Never give anything by mouth to an unconscious person.
Do not induce vomiting; call for medical help immediately.
Call a doctor immediately.

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation.
Keep away from ignition sources.
Avoid contact with eyes.
Avoid contact with skin.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.

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- Store only in the original receptacle.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from flammable substances.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Store under lock and key and out of the reach of children.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

105-46-4 sec-butyl acetate

MAK (Germany)	vgl.Abschn.IIb
WEL (Great Britain)	Short-term value: 1210 mg/m ³ , 250 ppm Long-term value: 966 mg/m ³ , 200 ppm
VME (France)	950 mg/m ³ , 200 ppm

123-86-4 n-butyl acetate

MAK (Germany)	480 mg/m ³ , 100 ppm
WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
VME (France)	Short-term value: 940 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm

79-20-9 methyl acetate

AGW (Germany)	610 mg/m ³ , 200 ppm 4(II);DFG, Y
WEL (Great Britain)	Short-term value: 770 mg/m ³ , 250 ppm Long-term value: 616 mg/m ³ , 200 ppm
VME (France)	Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm risque de pénétration percutanée

141-78-6 ethyl acetate

AGW (Germany)	1500 mg/m ³ , 400 ppm 2(I);DFG, Y
WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm
VME (France)	1400 mg/m ³ , 400 ppm

64-17-5 ethanol

AGW (Germany)	960 mg/m ³ , 500 ppm 2(II);DFG, Y
WEL (Great Britain)	1920 mg/m ³ , 1000 ppm
VME (France)	Short-term value: 9500 mg/m ³ , 5000 ppm Long-term value: 1900 mg/m ³ , 1000 ppm

78-92-2 butanol

MAK (Germany)	vgl.Abschn.IIb
WEL (Great Britain)	Short-term value: 462 mg/m ³ , 150 ppm Long-term value: 308 mg/m ³ , 100 ppm
VME (France)	300 mg/m ³ , 100 ppm

- **DNELs:** Data not available.
- **PNECs:** Data not available.
- **Additional information:** The lists valid during the making were used as basis.

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- **Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Personal protective equipment**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- | | |
|--|---------------------|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| · Form: | Clear liquid |
| · Colour: | Colourless |
| · Odour: | Fruity odour |
| · Odour threshold: | Data not available. |
| · pH-value: | Data not available. |
| · Change in condition: | |
| · Melting point/Melting range: | -98,9°C |
| · Boiling point/Boiling range: | 112,3°C |
| · Freezing point: | -98.9° C |
| · Flash point: | 19°C (closed cup) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Auto-ignition temperature: | Data not available. |
| · Decomposition temperature: | 500°C |

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Trade name: *sec-Butyl Acetate*

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· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits	
Lower:	1,7 Vol %
Upper:	15,0 Vol %
· Oxidizing properties:	Data not available.
· Vapour pressure at 25°C:	32 hPa
· Density:	0,86 g/cm ³
· Relative density at 20°C:	0,872 g/cm ³
· Vapour density:	4 g/cm ³
· Evaporation rate:	180 (Relative to butyl acetate)
· Solubility in / Miscibility with water at 20°C:	6,2 g/l
· Partition coefficient (n-octanol/water):	1,51 log POW
· Viscosity:	
Dynamic at 21,1°C:	23,33 mPas
Kinematic:	Data not available.
· Other information	The product can react strongly with oxidizer and cause a fire explosion in case of fire. Its steam and air can form explosive mixture.

10 Stability and reactivity

- **Reactivity** No decomposition if used according to specifications.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, flames and sparks
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· LD/LC50 values relevant for classification:

105-46-4 *sec-butyl acetate*

Oral	LD50	3200 mg/kg (rat)
------	------	------------------

123-86-4 *n-butyl acetate*

Oral	LD50	13100 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21,0 mg/l (rat)

79-20-9 *methyl acetate*

Oral	LD50	3705 mg/kg (rabbit)
------	------	---------------------

141-78-6 *ethyl acetate*

Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)

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64-17-5 ethanol

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)

78-92-2 butanol

Oral	LD50	6480 mg/kg (rat)
------	------	------------------

- **Primary irritant effect**
- **on the skin:** Irritating effect possible.
- **on the eye:** Irritating effect possible.
- **Sensitization:** Sensitization possible.
- **Toxicokinetics, metabolism and distribution:** No further relevant information available.
- **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
No further relevant information available.

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---------------------|
| · UN-Number | |
| · ADR, IMDG, IATA | UN1123 |
| · UN proper shipping name | |
| · ADR | 1123 BUTYL ACETATES |
| · IMDG, IATA | BUTYL ACETATES |

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EU

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· **Transport hazard class(es)**· **ADR**· **Class** 3 Flammable liquids.· **Label** 3· **IMDG, IATA**· **Class** 3 Flammable liquids.· **Label** 3· **Packing group**· **ADR, IMDG, IATA** II· **Marine pollutant:** No· **Special precautions for user** Warning: Flammable liquids.· **Danger code (Kemler):** 33· **EMS Number:** F-E,S-D

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Pollution category: Y
Ship type: 3

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ):** 1L· **Transport category:** 2· **Tunnel restriction code:** D/E· **UN "Model Regulation":** UN1123, BUTYL ACETATES, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355(extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313(Specific toxic chemical listings):**

78-92-2 butanol

· **TSCA(Toxic Substances Act):**

105-46-4 sec-butyl acetate

64-17-5 ethanol

123-86-4 n-butyl acetate

141-78-6 ethyl acetate

79-20-9 methyl acetate

78-92-2 butanol

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· Proposition 65**· Chemicals known to cause cancer:**

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5 ethanol

· Cancerogenity categories**· EPA(Environmental Protection Agency):**

None of the ingredients is listed.

· IARC(International Agency for Research on Cancer):

None of the ingredients is listed.

· NTP(National Toxicology Program):

None of the ingredients is listed.

· TLV(Threshold Limit Value established by ACGIH):

64-17-5 ethanol

A3

· MAK(German Maximum Workplace Concentration)

64-17-5 ethanol

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· NIOSH-Ca(National Institute for Occupational Safety and Health):

None of the ingredients is listed.

· OSHA-Ca(Occupational Safety & Health Administration):

None of the ingredients is listed.

· National regulations:**· Waterhazard class:** Generally not hazardous for water.**· Other regulations, limitations and prohibitive regulations****· Candidate List of Substances of very high concern (SVHC) according to ECHA (20/06/2011)**

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction List (21/5/2011)

105-46-4 sec-butyl acetate

123-86-4 n-butyl acetate

79-20-9 methyl acetate

141-78-6 ethyl acetate

64-17-5 ethanol

78-92-2 butanol

· REACH Regulation Annex XIV Authorization List (18/2/2011)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other information****· Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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*H336 May cause drowsiness or dizziness.**R10 Flammable.**R11 Highly flammable.**R36 Irritating to eyes.**R36/37 Irritating to eyes and respiratory system.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.***Recommended restriction of use****REACH Annex XVII Restricted -3***Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC.**sec-Butyl acetate (CAS No.105-46-4)**n-butyl acetate (CAS No.123-86-4)**methyl acetate (CAS No.79-20-9)**ethyl acetate (CAS No.141-78-6)**ethanol (CAS No.64-17-5)**butan-2-ol (CAS No.78-92-2)***1. Shall not be used in:***- ornamental articles, intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,**- tricks and jokes,**- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.***2. Articles not complying with paragraph 1 shall not be placed on the market.****3. Shall not be placed on the market if they contain a colouring agent unless required for fiscal reasons or perfume or both and if they:***- present an aspiration hazard and are labelled with R65 or H304, and,**- can be used as fuel in decorative lamps, and,**- are packaged in containers of a capacity of 15 litres or less.***4. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of substances and mixtures covered by paragraph 3, where intended for use in lamps, is marked visibly, legibly and indelibly as follows:***“Keep lamps filled with this liquid out of the reach of children”.*

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) No 1907/2006, Regulation (EU) No 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY :

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

Abbreviations and acronyms:*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**ICAO: International Civil Aviation Organization**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**ACGIH: American Conference of Governmental Industrial Hygienists**DNEL: Derived No-Effect Level (REACH)*

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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