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17  
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## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : n-Butanol  
Product Number : B111575  
Brand : aladdin  
CAS-No. : 71-36-3

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

#### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

#### 2.2 GHS Label elements, including precautionary statements

<b>Pictogram</b>	
<b>Signal word</b>	
<b>Hazard statement(s)</b>	Warning
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

**Precautionary statement(s)**  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

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**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Synonyms : Butyl alcohol 1-Butanol  
Formula : C4H10O  
Molecular weight : 74.12  
CAS No. : 71-36-3  
EC-NO. : 200-751-6

<b>Component</b>	<b>Classification</b>	<b>Concentration</b>
<b>n-Butanol</b> no data available		for HPLC,≥99.7% (GC)

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General advice**

请教医生。向到现场的医生出示此安全技术说明书。

**If inhaled**

将受害者移到新鲜空气处，保持呼吸通畅，休息。若感不适请求医就诊。

**In case of skin contact**

用肥皂和大量的水冲洗。请教医生。

**In case of eye contact**

用大量水彻底冲洗至少15分钟并请教医生。

**If swallowed**

用水雾，耐醇泡沫，干粉或二氧化碳灭火。

**4.2 Most important symptoms and effects, both acute and delayed**

主要症状和影响，急性和迟发效应干燥，皮肤破裂，皮肤刺激据我们所知，此化学，物理和毒性性质尚未经完整的研究。

**4.3 Indication of any immediate medical attention and special treatment needed**

如有必要，佩戴自给式呼吸器进行消防作业。

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

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no data available

**Unsuitable extinguishing media**

碳氧化物

**5.2 Special hazards arising from the substance or mixture**

使用个人防护装备。避免吸入蒸气、气雾或气体。保证充分的通风。消除所有火源。将人员疏散到安全区域。注意蒸气积累达到可爆炸的浓度，蒸气可蓄积在地面低洼处。

**5.3 Advice for firefighters**

火灾时：撤离现场。因有爆炸危险，须远距离救火。

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

围堵溢出，用防电真空清洁器或湿刷子将溢出物收集起来，并放置到容器中去，根据当地规定处理(见第13部分)。

**6.2 Environmental precautions**

no data available

**6.3 Methods and materials for containment and cleaning up**

避免接触皮肤和眼睛。避免吸入蒸气或雾滴。切勿靠近火源。- 严禁烟火。采取措施防止静电积聚。

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

无数据资料

**7.2 Conditions for safe storage, including any incompatibilities**

贮存在阴凉处。使容器保持密闭，储存在干燥通风处。打开了的容器必须仔细重新封口并保持竖放位置以防止泄漏。充气操作和储存吸湿的

**7.3 Specific end use(s)**

按照良好的工业卫生和安全规范进行操作。休息前及工作结束时洗手。

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**SECTION 8: Exposure controls/personal protection**

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**8.1 Control parameters****8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

no data available

**Skin protection**

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

**Body Protection**

no data available

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

no data available

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-90 °C (-130 °F)
f) Initial boiling point and boiling range	116 - 118 °C (241 - 244 °F)
g) Flash point	35 °C (95 °F) - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	Lower explosion limit 1.4 % (V) Upper explosion limit 11.2 % (V)
k) Vapour pressure	5 hPa (4 mmHg) at 20 °C (68 °F)
l) Vapour density	2.56 - (Air = 1.0)
m) Relative density	0.81 g/mL at 25 °C (77 °F)
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

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**9.2 Other safety information**

no data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

氧化剂,碱金属,碱,强酸,卤素

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

蒸气可引起睡意和眩晕。吸入可能有害。引起呼吸道刺激。

**10.5 Incompatible materials**

吞咽有害。

**10.6 Hazardous decomposition products**

LD50 经口- 大鼠- 790 mg/kg 备注 : 肝脏 : 脂肪肝变性肾脏、输尿管、膀胱 : 其他改变。血 : 其他改变。LC50 吸入- 大鼠- 4 - 8000 ppm LD50 经皮- 家兔- 3,400 mg/kg 皮肤腐蚀

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

眼睛-家兔-失明-OECD测试导则405

**Serious eye damage/eye irritation**

通过皮肤吸收可能有害。引起皮肤刺激。

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

此产品中没有大于或等于0.1%含量的组分被IARC鉴别为可能的或肯定的人类致癌物。

**Carcinogenicity**

无数据资料

**Reproductive toxicity**

化学物质毒性作用登记:EO1400000

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**Specific target organ toxicity - single exposure**  
no data available

**Specific target organ toxicity - repeated exposure**  
引起眼睛灼伤。

**Aspiration hazard**

对鱼类的LC50 - Pimephales promelas (肥头鱥鱼) - 1,840 mg/l- 96 h 对水蚤和其他水生无脊椎动物的EC50 - Daphnia magna (水蚤) - 1,983 mg/l- 48 h

**Additional Information**

no data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

生物富集或生物积累性Oncorhynchus mykiss (虹鳟) - 24 h-921 mg/l 生物富集因子(BCF): 0.38

**12.3 Bioaccumulative potential**

无数据资料

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

无数据资料

**12.6 Other adverse effects**

no data available

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**SECTION 13:**

**13.1 Disposal considerations**

**Product**

no data available

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information**

**DOT (US)**

UN number: 1120

Packing group: III

Class: 3

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Proper shipping name: BUTANOLS  
Environmental Hazards: 否

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: 否

**IMDG**

UN number: 1120  
Proper shipping name: BUTANOLS

Packing group: III

EMS-No: 否

**IATA**

UN number: 1120  
Proper shipping name: BUTANOLS

Packing group: III

Class: 3

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**SECTION 15: Regulatory information**

no data available

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**SECTION 16: Other information**

**Further information**

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