

OLFINE B



Nissin Chemical Industry Co., Ltd.

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SAFETY DATA SHEET





1. Chemical product and company identification

Trade name : OLFINE B
Substance name : 2-Methyl-3-butyn-2-ol
Company/undertaking : Nissin Chemical Industry Co., Ltd.
identification
Zip code : 101-0047
Street : 5-13, Uchikanda 1-chome, Chiyoda-ku, Tokyo, Japan
Tel : +81-3-3295-3931
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Department name : Quality Assurance Group/Environmental & Quality Control Division
Tel : +81-778-22-9998
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2. Hazards identification

GHS classification

Physical hazards : Explosive / Classification not possible
: Flammable gases / Not applicable
: Flammable aerosol / Not applicable
: Oxidising gases / Not applicable
: Gases under pressure / Not applicable
: Flammable liquids / Category 2
: Flammable solids / Not applicable
: Self-reactive substances and mixtures / Classification not possible
: Pyrophoric liquids / Not classified
: Pyrophoric solids / Not applicable
: Self-heating substances and mixtures / Classification not possible
: Substances and mixtures which in contact with water emit
flammable gases / Not applicable
: Oxidising liquids / Not applicable
: Oxidising solids / Not applicable
: Organic peroxide / Not applicable

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|---------------------------------------|--|
| Health hazards | <ul style="list-style-type: none"> : Corrosive to metals / Classification not possible : Acute toxicity (oral) / Category 4 : Acute toxicity (dermal) / Not classified : Acute toxicity (inhalation:gas) / Not applicable : Acute toxicity (inhalation:vapour) / Classification not possible : Acute toxicity (inhalation:dust,mist) / Not classified : Skin corrosion/irritation / Not classified : Serious eye damage/eye irritation / Category 1 : Respiratory sensitisation / Classification not possible : Skin sensitisation / Classification not possible : Germ cell mutagenicity / Not classified : Carcinogenicity / Classification not possible : Reproductive toxicity / Category 2 : Specific target organ toxicity (single exposure) / Category 3 : Specific target organ toxicity (repeated exposure) / Classification not possible : Aspiration hazard / Classification not possible |
| Environmental hazards | <ul style="list-style-type: none"> : Hazardous to the aquatic environment - Acute Hazard / Not classified : Hazardous to the aquatic environment - Chronic Hazard / Not classified : Hazardous to the ozone layer / Classification not possible |
| Hazard pictograms | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>GHS02</p> </div> <div style="text-align: center;">  <p>GHS05</p> </div> <div style="text-align: center;">  <p>GHS07</p> </div> <div style="text-align: center;">  <p>GHS08</p> </div> </div> |
| GHS Signal word | : Danger |
| Hazard statements | <ul style="list-style-type: none"> : Highly flammable liquid and vapour (H225) : Harmful if swallowed (H302) : Causes serious eye damage (H318) : May cause drowsiness or dizziness (H336) : Suspected of damaging fertility or the unborn child (H361) |
| [Prevention precautionary statements] | <ul style="list-style-type: none"> : Obtain special instructions before use. (P201) : Do not handle until all safety precautions have been read and understood. (P202) : Keep away from heat, sparks, open flames, hot surfaces. - No smoking. (P210) : Keep container tightly closed. (P233) : Ground/bond container and receiving equipment. (P240) : Use explosion-proof electrical, ventilating, lighting equipment. (P241) |

- Use only non-sparking tools (P242)
 Take precautionary measures against static discharge (P243)
 Avoid breathing dust, fume, gas, mist, vapours, spray. (P261)
 Wash hands thoroughly after handling. (P264)
 Do not eat, drink or smoke when using this product. (P270)
 Use only outdoors or in a well-ventilated area. (P271)
 Wear protective gloves, protective clothing, eye protection, face protection. (P280)
- [Response Precautionary Statements] : IF SWALLOWED: call doctor/physician if you feel unwell. (P301+P312)
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353)
 If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
 If exposed or concerned: Get medical advice/attention (P308+P313)
 If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor. (P310)
 Call a POISON CENTER or doctor/physician if you feel unwell. (P312)
 If swallowed, rinse mouth. (P330)
 Use extinguishing media in Chapter 5 for extinction. (P370+P378)
- [Storage precautionary statements] : Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
 Store in a well-ventilated place. Keep cool. (P403+P235)
 Store locked up. (P405)
- [Disposal precautionary statements] : Dispose of contents/container in accordance with local/regional/national/international regulations. (P501)

3. Composition/information on ingredients

| Name | Concentration | Kanpo number | | CAS-No. |
|-----------------------|---------------|---------------------------|-----------|----------|
| | | CSCL No | ISHL No | |
| 2-Methyl-3-butyn-2-ol | 99 - 100% | (2)- 2396,(2)- 3457 | 2-(8)-570 | 115-19-5 |
| Tetrahydrofuran | < 1% | (5)-53 | | 109-99-9 |

4. First aid measures

First-aid measures after : Remove the affected individual into fresh air and keep the person

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| inhalation | calm. Assist in breathing if necessary. Immediate medical attention required. |
| First-aid measures after skin contact | : Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Seek medical attention. |
| First-aid measures after eye contact | : In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention. |
| First-aid measures after ingestion | : Rinse mouth and then drink plenty of water. Immediate medical attention required. |
| Notes to physician | : Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11, Further symptoms are possible Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. |

5. Fire fighting measures

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| Suitable extinguishing media | : water spray, dry powder, carbon dioxide, foam |
| Fire hazard | : carbon oxides, nitrogen oxides The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated. Cool containers / tanks with spray water if possible. |
| Personal protection (Emergency response) | : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. |

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

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|---------------------------|---|
| General measures | : Remove ignition sources Wear suitable protective goggles, boots, gloves, body suits to avoid contact with droplet, etc and inhalation of mist, gas, etc. |
| Emergency procedures | : Avoid breathing dust, fume, gas, mist, vapours, spray. |
| Environmental precautions | : Avoid release to the environment. |

Methods and Equipment for Containment and Cleaning up

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| For containment | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. |
| Methods for cleaning up | : When the releasing materials are small, cover with dry sand, dirt, sawdust and/or the like, rake up with shovels or brooms and recover into the containers being stoppled tightly. When the releasing materials are large, vacuum and recover with a pump, etc. |

7. Handling and storage

Handling

- Technical measures : Operate obeying relating laws such as the Industrial Safety and Hygiene Law.
- Use in well-ventilated areas.
Wash hands, face, etc. well and gargle the throat.
Take precautionary measures against static discharges.
- Precautions for safe handling : Comply with practice rules established by the Government.
Emergency showers and eye wash stations should be readily accessible.
Provide against eat, drink and smoke when using this product.
Ensure good ventilation of the work station.
- Prevents handling of incompatible substances or mixtures : Put on protecting gloves, eyes, etc. to avoid to contact with skin or eye(s).
- Hygiene measures : Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
Hands and/or face should be washed before breaks and at the end of the shift.

Storage precautionary statements

- Storage conditions : Keep away from oxidizing agents, acids, bases and water.
- Technical measures : Keep container below 50°C in a well ventilated place.

8. Exposure controls / Personal protection equipment

| Name | Japan administration level | Exposure limits (JSOH) | Exposure limits (ACGIH) |
|-----------------|----------------------------|------------------------|--------------------------------|
| Tetrahydrofuran | 50ppm | 200ppm(590mg /m3) | TWA 50 ppm,STEL 100 ppm (Skin) |

- Respiratory protection : It is needless under normal conditions at well ventilated place.
- Hand protection : Neoprene gloves.
Nitrile rubber.
Chemical-resistant, impervious gloves complying with an approved standard
should be worn at all times when handling chemical products if a risk
assessment indicates this is necessary.
- Eye protection : Tightly fitting safety goggles (chemical goggles).

Skin and body protection : protective clothing
Choose appropriate protective clothes according to the concentration of the dangerous substance and the work circumstance.

9. Physical and chemical properties

Physical state : Liquid
Colour : Colourless. clear
Odour : alcohol-like
pH : 7
Melting point : 3 °C
Boiling point : 102 °C
Flash point : < 21 °C (literature value) 23°C(JIS K-22651)
Explosive limits (vol %) : 1.6 - 16 vol %
Specific gravity density : 0.86 g/cm³ (literature value)
Log Pow : 0.32 (25°C)
Auto-ignition temperature : 350 °C (literature value)
Decomposition temperature : 300 °C

10. Stability and reactivity

Reactivity : Stable under normal conditions.
Conditions to avoid : Avoid heat.
Incompatible materials : Reacts with strong bases and heavy-metal salts. Reacts with strong acids. Exothermic reaction.
Hazardous decomposition products : Thermal decomposition above the indicated temperature is possible,Acetylene,Acetone.

11. Toxicological information

Acute toxicity (oral) - Description : Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.
LD50 oral rat : 1420 mg/kg (BASF method)
LD50 dermal rat : > 2000 mg/kg
LC50 inhalation rat (mg/l) : > 21.3 mg/l (4h : OECD test guideline 403)
Skin corrosion/irritation - Description : Not irritating to the skin.
Serious eye damage/eye irritation - Description : May cause severe damage to the eyes.
Germ cell mutagenicity - Description : The substance was not mutagenic in bacteria.
Carcinogenicity : No data available concerning carcinogenic effects.

Reproductive toxicity - Description : From the results of animal experiments, the effect on reproductive ability when administered at high doses can not be denied.

Specific target organ toxicity (single exposure) - Description : There is a possibility of an anesthetic effect.

Specific target organ toxicity (repeated exposure) - Description : No data available

12. Ecological information

Hazardous to Aquatic Environment - Acute Hazard : There is a high probability that the product is not acutely harmful to aquatic organisms.

LC50 fish 1 : 3400 mg/l

EC50 Daphnia 1 : > 500 mg/l

BOD (% of ThOD) : < 20 % ThOD

13. Disposal considerations

Ecology - waste materials : Farm out to professional disposal treating traders in compliance with requirements of the nation and local governments.

Contaminated container and packaging : Farm out dispose of the contents and packing materials to professional disposal treating traders in compliance with requirements of the nation and local governments.

14. Transport information

International Regulations

Regulatory information by sea : Conform to the provisions of IMO.


UN-No. : 1987

Proper Shipping Name : ALCOHOLS, N.O.S.

Class (UN) : 3

Packing group (UN) : II

Danger labels (IMDG) : 3.

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Regulatory information by air : Conform to the provisions of ICAO/IATA.

UN-No. : 1987

Proper Shipping Name : ALCOHOLS, N.O.S.

Class (UN) : 3

Packing group (UN) : II
 Danger labels (IMDG) : 3.
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Regulations in Japan

Regulatory information by sea : Conform to the provisions of the Ship Safety Law.
 UN-No. : 1987

Proper Shipping Name : ALCOHOLS, N.O.S.
 Class (UN) : 3

Packing group (UN) : II
 Danger labels (IMDG) : 3.
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Regulatory information by air : Conform to the provisions of the Civil Aeronautics Law.
 UN-No. : 1987

Proper Shipping Name : ALCOHOLS, N.O.S.
 Class (UN) : 3

Packing group (UN) : II
 Danger labels (IMDG) : 3.
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MFAG-No : 127
 Other information : No supplementary information available.

15. Regulatory information

Regulatory reference

| Country name | Inventory List | Listed/Not listed | Country name | Inventory List | Listed/Not listed |
|--------------|----------------|-------------------|----------------------------|----------------|-------------------|
| USA | TSCA | Listed | Korea | KECI | Listed |
| EU | EINECS | Listed | EU | REACH | No-Registered |
| Canada | DSL | Listed | People's Republic of China | IECSC | Listed |

| | | | | | |
|-------------|-------|--------|-------------|-------|--------|
| Australia | AICS | Listed | Philippines | PICCS | Listed |
| New Zealand | NZIoC | Listed | Taiwan | ECN | Listed |

The Nissin Chemical Company is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

16. Other information

Other information : The Products was developed for general industries' use. When applying to specific uses, it is hoped to confirm its safety by yourselves prior to the use. The description of this SDS is based upon materials, information and data which can be procured at present. However, we do not warrant any guarantee regarding the contents, physical and chemical properties, hazards and the like.