

Nicotine

SAFETY DATA SHEET

SDS

Shaanxi zhiyi biotechnology co., LTD

according to GHS(sixth revised edition)

Section 1 - Product and Company Identification

Product name	Nicotine
Applicant name	Shaanxi zhiyi biotechnology co., LTD
Application address	1305-7,253 Fenghe Road, Lianhu District, Xi'an City, Shaanxi
Applicant post code	710007
Applicant fax	—
Applicant emergency number	+86-15102992009
Applicant email	2672009211@qq.com
Manufacturer name	Shaanxi zhiyi biotechnology co., LTD
Manufacturer address	1305-7,253 Fenghe Road, Lianhu District, Xi'an City, Shaanxi
Manufacturer post code	710007
Manufacturer fax	—
Manufacturer emergency number	+86-15102992009
SDS number	DG1607458E May 26,
Effective date	2016

Section 2 –Hazards Identification

Hazard class and label elements of the substance according to GHS(the sixth revised edition):

GHS hazard class

Health hazard(s)	Acute toxicity, oral	category3
	Acute toxicity, dermal	category1
Environmental hazard(s)	Hazardous to the aquatic environment, long-term hazard	category2

Pictogram



Signal

Danger

Hazard statement(s)

H301 Toxic if swallowed
H310 Fatal in contact with skin
H411 Toxic to aquatic life with long lasting effects

Precautionary statements**Prevention**

P262 Do not get in eyes, on skin, or on clothing.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P310 Immediately call a POISON CENTER/doctor.
 P330 Rinse mouth.
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

Storage

P391 Collect spillage.

Disposal

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Nicotine	99	54-11-5	200-193-3

Section 4 – First Aid Measures

After skin contact	Wash off with soap and plenty of water. Consult a physician.
After eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	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.

Section 5 – Fire Fighting Measures

Hazardous products of combustion	Carbon oxides, nitrogen oxides
Extinguishing method	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measure

Personal protective measures	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas.
Environmental protective measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for taking in and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection	No special respiratory protection requirements.
Eye protection	Wear chemical goggles.
Hand Protection	Wear impervious chemical resistant gloves.
Body protection	Protective work clothing.

Section 9 – Physical and Chemical Properties

Appearance and properties: Colorless transparent liquid	Odor: No data available
Odor threshold: No data available	pH value: No data available
Melting point/freezing point(°C): -79	Initial boiling point and boiling range(°C): 246
Flash point(°C)(closed cup): 101	Evaporation Rate: No data available
Flammability: No data available	Upper explosive limit%(V/V): 280g/m3
Lower explosive limit%(V/V): 45g/m3	Vapor pressure(MPa): No data available
Vapor density(g/mL): 5.60	Relative density(g/cm³): 1.01(20°C)
Solubility: Soluble in water, ethanol, chloroform, ether, oil	Octanol / water partition coefficient: 1.17
Auto-ignition temperature(°C): 240	Decomposition temperature(°C): No data available
Kinematic viscosity (mm²/s): No data available	

Section 10 – Stability and Reactivity

Reactive	No data available.
Chemical stability	Stable under the condition recommended.
Possibility of hazardous reactions	No data available.
Avoid conditions	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents, Strong acids, Strong bases.
Hazardous decomposition products	No data available.

Section 11 – Toxicological Information

Acute toxicity: Nicotine: LD ₅₀ (rat,Oral) 50-60mg/kg;LD ₅₀ (rat,Dermal)50 mg/kg
Skin corrosion/irritation: Fatal in contact with skin.
Serious eye damage/eye irritation: No data available.
Respiratory or skin sensitization: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
Specific target organ toxicity – single exposure: No data available.
Specific target organ toxicity – repeated exposure: No data available.
Aspiration hazard: No data available.

Section 12 – Ecological Information

Toxicity: Nicotine:EC₅₀(Daphnia magna,48h) 0.24mg/L

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

Section 13 – Disposal Considerations

Property of waste: Hazardous Waste.

Methods of disposal: Dispose of in a manner consistent with federal, state, and local regulations.

Precautions of disposal: Professional processing together.

Section 14 - Transport Information

UN number: 1654

UN proper shipping name: NICOTINE

Transportation primary hazard class: 6.1

Transportation secondary hazard class: —

Packing group: II

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Nicotine	√	√	√	√

Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 - Additional Information

Prepared by: Changzhou Testing Center of Entry-Exit Industrial and Consumable Products

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Modification statement: Original. Please update before the implementation of the GHS Seventh revised edition.

Other information: This Safety Data Sheet (SDS) was prepared according to UN GHS (the sixth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should make their independent judgement of suitability of these 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.