

[In accordance with the criteria of Regulation No 1907/2006 (REACH) with further changes]

## Section 1: Identification of the substance/mixture and of the company

### 1.1. Product identifier.

HiLIQ NICOTINE SALT-B

Nicotine Benzoate

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

Relevant identified uses: production of mixtures (liquid component, e-liquids for electronic cigarettes)

Uses advised against: not determined

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

Supplier: HiLIQ Co., Limited

Address: No.2995, Liyue Road, Shanghai, China, 201114

Phone: 1-888-568-6063

E-mail address of the person responsible for the information card: service@hiliq.com

## Section 2: Hazards Identification

### 2.1. Classification of the substance or mixture.

Classification according to 1272/2008/EC

Acute Tox. 2 (oral) - Acute toxicity, category 2; H300

Acute Tox. 1 (skin) - Acute toxicity, category 1; H310

Acute Tox. 2 (inhalation) - Acute toxicity, category 2; H330

Aquatic Chronic Toxicity, category 2: H411

### 2.2. Label elements

Hazard symbols and signal words



#### Danger

Hazard statements

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P361 Remove/Take off immediately all contaminated clothing.

P405 Store locked up.  
P501 Dispose of contents/container to container for waste.

### 2.3. Other hazards

No information whether the mixture meets criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

## Section 3: Composition/Information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

No.	Chemical name	Percentage	CAS	EC (EINECS)	Index No./ REACH Registration No.	Classification according to 1272/2008/EC
1.	Nicotine benzoate	≤100,0 %	88660-53-1	-	none/ not applicable	Acute Tox. 1 H310; Acute Tox. 2 H300; Acute Tox. 2 H330; Aquatic Chronic 2 H411

Full text of H - phrases in section 16.

## Section 4: First aid measures

### 4.1. Description of first aid measures.

Skin contact: immediately take off contaminated clothing. Wash out skin with plenty of water with soap. Consult a doctor immediately.

Eye contact: wash out with plenty of water with the eyelid hold wide open, for 10-15 min. Remove any contact lenses. Avoid strong stream of water-risk of cornea damage. Seek medical advice if necessary.

Ingestion: do not induce vomiting. Rinse mouth with water. Do not give anything to drink to an unconscious person. Consult a doctor - show the container or label.

Inhalation: remove to fresh air. Keep warm and calm. Consult a doctor, if symptoms persist.

### 4.2. Most important symptoms and effects, both acute and delayed.

Eye contact: redness, tearing, mild irritation.

Skin contact: can cause irritation, breathing problems, dizziness, cramps, nausea, vomiting. It can be absorbed through the skin. At sensitive individuals may experience an allergic reaction.

Ingestion: nausea, vomiting. In extreme cases, after swallowing very large quantities of product, may appear breathing problems, dizziness, disorders of the respiratory tract.

Inhalation: following exposure to doses above permissible limits include: stimulation of breath, nausea, vomiting, headache, dizziness, diarrhea, tachycardia, increased blood pressure, sweating, salivation, burning sensation in the mouth, throat and stomach.

### 4.3. Indication of any immediate medical attention and special treatment needed.

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

## Section 5: Firefighting measures

**5.1. Extinguishing media.**

Suitable extinguishing media: adjust the extinguishing agent to the material collected in the environment.

Unsuitable extinguishing media: water jet - risk of the propagation of the flame.

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

May produce toxic fumes of carbon and nitrogen oxides, if burning. Do not inhale combustion products.

**5.3. Advice for firefighters.**

Personal protection typical in case of fire. Wear suitable respiratory equipment. Cool down containers with water from safe distance to prevent bursting.

## Section 6: Accidental release measures

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

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large spills, isolate the exposed area. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid contact with spilled material. Danger of slipping, do not passed through spilled material. Wear adequate personal protective equipment. Do not allow the product to get into mouth.

**6.2. Environmental precautions.**

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

**6.3. Methods and material for containment and cleaning up.**

Soak up with liquid-binding material (e.g. sand, universal binding agent, diatomaceous earth). Collect spilled material in containers. Disposal in accordance with the local legislation. Clean the contamination place.

**6.4. References to other sections.**

Appropriate conduct with waste product - see section 13. Personal protective equipment - see section 8.

## Section 7: Handling and storage

**7.1. Precautions for safe handling.**

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not inhale vapours. Ensure adequate ventilation. Before break and after work wash carefully hands. Keep not used containers tightly closed. Do not allow the product to get into mouth. Shake before use.

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

Keep containers tightly closed in cool and well-ventilated area. Keep away from food, beverages or feed for animals. After opening seal the container and store in an upright position to prevent leakage. Avoid heat and ignition sources. Keep out of the reach of children. Store at room temperature.

**7.3. Specific end use(s).**

No information about the applications other than those listed in subsection 1.2.

## Section 8: Exposure control/personal protection

**8.1. Control parameters.**

Specification	STEL 15 min	TWA 8 hour
nicotine benzoate [CAS 88660-53-1]	Not Available	Not Available

Legal Basis: Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Please check any national occupational exposure limit values in your country for substance contained in this product.

## 8.2. Exposure controls.

Use the product in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation. When handling do not eat, drink or smoke. Before break and after work carefully wash hands. In the vicinity of the work should be installed safety showers and separate washer eyewash. At the exit of the room in which you are working with toxic materials should be at least one sink with brought to the warm water - for every twenty employees.

### Hand and body protection

Wear the protective gloves (long-term exposure - butyl rubber, thickness: 0,3 mm, penetration time: >480 min., short-term exposure: nitrile rubber, thickness: 0,4 mm, penetration time: >30 min.) and protective clothing.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.



### Eye/face protection

Wear tight safety glasses when there is a danger of possible eye contamination.

### Respiratory protection

In case of normal and as intended use, no respirator is needed. If exposure limits are exceeded, apply face mask with appropriate organic vapour cartridge.

### Environmental exposure controls

Do not allow the mixture to contaminate surface water/ground water.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties.

a) physical state:	Liquid. (Oily liquid.)
colour:	from yellow to dark brown
b) odour:	characteristic
c) odour threshold:	not determined
d) pH (20°C):	not determined
e) melting point/freezing point:	not available
f) initial boiling point and boiling range (993 hPa):	not available
g) flash point:	not available
h) evaporation rate	not determined
i) flammability (solid, gas):	not available
j) upper/lower flammability or explosive limits:	not available
k) vapour pressure (25°C):	not available
l) vapour density (air=1):	not available
m) density (20°C):	1.160
n) solubility(ies):	not available
o) partition coefficient:	not available
p) auto-ignition temperature:	not available
r) decomposition temperature:	not determined
s) explosive properties:	not display
t) oxidising properties:	not display
u) viscosity:	not determined

## 9.2. Other information.

No additional test results.

## Section 10: Stability and reactivity

### 10.1. Reactivity.

Product may react with incompatible materials to release other hazardous substances. See other subsection.

### 10.2. Chemical stability.

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions.

None under normal processing.

### 10.4. Circumstances to avoid.

Avoid direct sunlight and sources of ignition.

### 10.5. Incompatible materials.

Strong oxidizers.

### 10.6. Hazardous decomposition products.

Carbon oxides, nitrogen oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### a) Acute toxicity

Acute toxicity, skin, category 1

Acute toxicity, oral, category 2

Acute toxicity, inhalation category 2

#### b) Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### c) Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### d) Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### e) Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### f) Carcinogenicity

Based on available data, the classification criteria are not met.

#### g) Reproductive toxicity

Based on available data, the classification criteria are not met.

#### h) STOT-single exposure

Based on available data, the classification criteria are not met.

#### i) STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### j) Aspiration hazard

Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

### 12.1. Toxicity.

The criteria for environmental toxicity are met. Aquatic Chronic toxicity, category 2.

### 12.2. Persistence and degradability.

Not available.

### 12.3. Bioaccumulative potential.

Do not expect to significantly bioaccumulate.

### 12.4. Mobility in soil.

Product mobile in soil and in water. Mobility of components in the mixture depends on the hydrophilic and hydrophobic properties and conditions of biotic and abiotic soil, including its structure, climatic conditions, seasons and soil organisms.

### 12.5. Results of PBT and vPvB assessment.

Not applicable.

### 12.6. Other adverse effects.

This product has no influence on the global warming or the ozone layer depletion. Consider other harmful effects of the individual components of the mixture on the environment (eg impact on the growth of global warming).

## Section 13: Disposal considerations

### 13.1. Waste treatment methods.

Disposal methods for the product: disposal in accordance with the local legislation. Store remainings in original containers. Do not empty into drains.

Disposal methods for used packing: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation. Do not dispose empty packing with regular household waste. Do not mix with other waste.

Legal basis: Directive 2008/98/EC, 94/62/EC.

## Section 14: Transport Information

### 14.1 UN number

3144

### 14.2 UN proper shipping name

NICOTINE COMPOUND, LIQUID, N.O.S. (contains nicotine benzoate).

### 14.3 Transport hazard class(es)

6.1

### 14.4 Packing group

II

### 14.5 Environmental hazards

The mixture is classified as dangerous for the environment.

### 14.6 Special precautions for user

Use protective measures according to section 8

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.



## Other information

hazard identification number: 60

special provision: -

transport category: 2

code tunnel restriction: D / E

## Section 15: Regulatory Information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

**Directive 1999/45/EC** of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

**Council Directive 67/548/EEC** of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.

**Commission Regulation (EC) No 790/2009** of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (Text with EEA relevance).

**Commission Regulation (EU) No 453/2010** of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste.

**COMMISSION REGULATION (EU) 2015/830** of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment.

There is no data concerning chemical safety assessment performed for substances.

## Section 16: Other Information.

### a) revised safety data sheet- changes

First version.

### b) legend to abbreviations and acronyms used in the safety data sheet

TWA	Time Weighted Average
PEL	Permissible exposure limit
TLV-C	Threshold limit value- Ceiling Limit
STEL	Short-term exposure limit
PBT	Persistent, Bioaccumulative and Toxic substance

vPvB	very Persistent, very Bioaccumulative substance
CAS	Chemical Abstract Service
EC No.	is a unique seven-digit identifier that is assigned to chemical substances for regulatory purposes within the European Union by the regulatory authorities.
LD50	lethal dose, the point where 50% of test subjects exposed would die
LC50	lethal concentration, the point where 50% of test subjects exposed would die
EC50	half maximal effective concentration
UN number	is four-digit number that identify hazardous substances
ATEmix	Acute Toxicity Estimates for mixture
PEB	permitted exposure for a biological material

c) list of relevant H phrases, hazard statements, safety phrases and/or precautionary statements- full text all explained in text.

d) trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

e) other data

Classification was made on the basis of data on hazardous substances calculation method based on the guidelines of Regulation 1272/2008/EC (CLP).

The above information is prepared on the basis of current state of knowledge and relates to the product in the form in which it is used. Data relating to the product are presented in order to include safety requirements, and not to guarantee their particular properties.

In the event when conditions of application of the product are beyond control of the manufacturer, responsibility for safe use of the product is borne by the user.

The Employer is obligated to inform all employees who have contact with the product, about hazards and personal protection equipment specified in this material safety data sheet.

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