

MSDS Material Safety Data Sheet

Prepared For

KDD Corporation Co., LTD

1-2-7-1708 shigita,osaka shi joto ku,osaka fu,536-0015, Japan

Prepared By

TMC Testing Services (Shenzhen) Co., Ltd.

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Nina Wu

Written by: _____

Approved by: _____

MSDS Material Safety Data Sheet

Section 1 - Product and Company Identification

Product Identification: Zero nicotine e-cigarettes

Manufacturer or Supplier Name: KDD Corporation Co., LTD

Manufacturer or Supplier Address: 1-2-7-1708 shigita,osaka shi joto ku,osaka fu,536-0015, Japan

Applicant Name: ShenZhen HanMaHuaYan Technology Co., LTD

Address: Room 503,Building C,Tongxin Industrial Park,Dongda Road,Shatou community, Changan
Town,Dongguan City,Guangdong,China, 523505

Model No. : Zero nicotine e-cigarettes muscat

Trade Name: Dream Mist

Flavor: muscat

Contact Person: TANAKA NAYU

Tel.: 13733685018

E-mail: 176583230@qq.com

Section 2 - Hazards Identification information

2.1 Classification of the substance or mixture

Classification under CLP: NO

Most important adverse effects: Toxic if swallowed.

2.2 Label elements

Label elements:

Hazard statements: No data available.

Hazard pictograms: No data available.

Signal words: No data available.

Precautionary statements: P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P301+310: IF SWALLOWED: Immediately call a doctor/emergency service.

P330: Rinse mouth.

P501: Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details.

2.3 Other hazards

Other hazards:No data available.

PBT:This product is not identified as a PBT/vPvB substance.

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Section 3 –Composition/information on ingredients

3.1 Mixtures

Non-hazardous ingredients:

Substances	CAS No.	Percent
ethyl maltol	4940-11-8	<0.2
Ethyl butyrate	105-54-4	<0.3
Ethyl propionate	105-37-3	<0.2
Acetic acid	367-64-6	<0.1
Butyric acid	107-92-6	<0.1
Ethyl 2-methylbutyrate	7452-79-1	<0.1
Ethyl isovalerate	108-64-5	<0.1
Ethyl acetate	141-78-6	<0.2
Ethyl acetoacetate	141-97-9	<0.3
Methyl anthranilate	134-20-3	<0.5
cis-3-hexenol	928-96-1	<0.2
Propylene Glycol	56-81-5	45
WS-23	5015-67-4	4
glycerin	57-55-6	To 100

Section 4 - First Aid Measures

4.1 Description of first aid measures

Ingestion:	Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.
Inhalation:	If breathing affected seriously: Remove person to fresh air and keep comfortable for breathing ensuring one's own safety whilst doing so. Call a doctor/emergency service if experiencing respiratory symptoms.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

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4.2 Most important symptoms and effects, both acute and delayed

Ingestion:	Gastrointestinal signs and symptoms include mouth and throat burning followed by profuse salivation, nausea, vomiting, abdominal pain and occasionally diarrhoea. Convulsions may occur.
Inhalation:	Dizziness, nausea or vomiting may occur. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Skin contact:	There may be irritation and redness at the site of contact. An itchy rash may occur at the site contact.
Eye contact:	There may be irritation and redness.
Delayed/immediate effects:	Delayed effects can be expected after long-term exposure of sensitisers.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate/special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If vomiting has not occurred, remove stomach contents by gastric lavage. Single or multiple doses of activated charcoal may be used. Do NOT administer antacids; alkaline conditions improve the absorption of nicotine.
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Section 5 - Fire Fighting Measures

5.1 Extinguishing media

Extinguishing media:	Extinguish with carbon dioxide, dry chemical or foam. Alcohol resistant foams (ATC type) are preferred.
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5.2 Special hazards arising from the substance or mixture

Exposure hazards:	In combustion emits toxic fumes.
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5.3 Advice for fire-fighters

Advice for fire-fighters:	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.
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Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing – see section 8.
Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 for suitable method of disposal.

6.4 Reference to other sections

Reference to other sections: Refer to section 8 and 13.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight.

Suitable packaging: Child-resistant packaging with tactile warning.

7.3 Specific end use(s)

Specific end use(s): For use in electronic cigarettes only.

Section 8 –Exposure controls/Personal protection

8.1 Control parameters

GLYCERIN

Workplace Exposure Limits: Respirable dust

State	8-hour TWA	15 min. STEL	8-hour TWA	15 min. STEL
UK	(mist) 10 mg/m ³	--	--	--

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PROPYLENE GLYCOL

Workplace Exposure Limits:

Respirable dust

State	8-hour TWA	15 min. STEL	8-hour TWA	15 min. STEL
UK	(particles) 15 mg/m ³ (total particles & vapour) 474 mg/m ³	--	--	--

DNEL/PNEC Values

DNEL / PNEC: No data available.

8.2 Exposure controls

Engineering measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Ensure there is sufficient ventilation of the area.

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency.

Hand protection:

Protective gloves.

Eye protection:

Safety glasses. Ensure eye bath is to hand.

Skin protection:

Protective clothing.

Environmental:

Prevent from entering in public sewers or the immediate environment.

Section 9 - Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

State: Liquid

Colour: Variable colour (from colourless to yellow/orange)

Odour: Variable colour (from colourless to yellow/orange)

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: Soluble

Viscosity: No data available

Boiling point/range °C: No data available

Melting point/range °C: No data available

Flammability limits % lower: Not applicable.

upper: Not applicable.

Flash point °C: No data available

Part. coeff. n-octanol/water: No data available

Autoflammability °C: Not applicable.

Vapour pressure: No data available

Relative density: No data available

pH: No data available

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Section 10 - Stability & Reactivity Data

10.1 Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical stability

Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Conditions to avoid: Flames. Direct sunlight.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Oral

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

Dermal

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

Inhalation

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

Skin corrosion/irritation

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

Eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT – single exposure

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

STOT – repeated exposure

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

Aspiration hazard

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

Symptoms/routes of exposure

Ingestion:

Gastrointestinal signs and symptoms include mouth and throat burning followed by profuse salivation, nausea, vomiting, abdominal pain and occasionally diarrhoea. Convulsions may occur.

Inhalation:

Dizziness, nausea or vomiting may occur. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Skin contact:

There may be irritation and redness at the site of contact. An itchy rash may occur at the site contact. Absorption of nicotine through the skin may occur causing symptoms similar to those of inhalation/ingestion.

Eye contact:

There may be irritation and redness.

Delayed/immediate effects:

Delayed effects can be expected after long-term exposure of sensitisers.

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Section 12 - Ecological Information

12.1 Toxicity

Toxicity: No data available.

12.2 Persistence and degradability

Persistence and degradability: No data available.

12.3 Bioaccumulative potential:

Bioaccumulative: No data available.

12.4 Mobility in soil

Mobility: No data available.

12.5 Results of PBT and vPvB assessment

PBT identification:

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: No data available.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Disposal operations: Avoid release to the environment. Disposal in accordance with the local/national legislation. Individual bottles can be disposed of to commercial/domestic waste. Disposal of large quantities must be performed by qualified and authorised body.

Recovery operations: Not applicable.

Disposal of packaging: Paper/board packaging may be reused or recycled. Bottles may be reused or recycled after cleaning.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14 - Transport Information

This product does not require a classification for transport according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

14.1 UN number

ADR/RID	IMDG	IATA/ICAO
UN number: None assigned.	None assigned.	None assigned.

14.2 UN proper shipping name

ADR/RID	IMDG	IATA/ICAO
UN proper shipping name: None assigned.	None assigned.	None assigned.

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA/ICAO
Transport class: None assigned.	None assigned.	None assigned.

14.4 Packing group

ADR/RID	IMDG	IATA/ICAO
Packing group: None assigned.	None assigned.	None assigned.

14.5 Environmental hazards

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Environmental hazards:	ADR/RID Not classified.	IMDG Not classified.	IATA/ICAO Not classified.
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14.6 Special precautions for user

Special precautions: See Section: 2

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

Transport in bulk::	ADR/RID Not applicable.	IMDG Not applicable.	IATA/ICAO Not applicable.
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Section 15 - Regulatory Information

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

15.2 Chemical safety assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16 -Other Information:

Other information

Other information: This safety data sheet is prepared in accordance with Regulations (EC) No 1907/2006 and 1272/2008 as Amended and Adapted.

* indicates text in the MSDS which has changed since the last revision.

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List of abbreviations:	ADR, International Carriage of Dangerous Goods by Road
	ATE, acute toxicity estimate
	CAS, Chemical Abstract Service
	CLP, Classification, Labelling and Packaging
	DNEL, Derived No Effect Level
	EC50, effective concentration 50%
	IATA, International Air Transport Association
	ICAO, International Civil Aviation Organisation
	IMDG, International Maritime Dangerous Goods
	LC50, lethal concentration 50%
	NB, Nota bene
	PBT, persistent, bioaccumulative, toxic
	PNEC, Predicted No Effect Concentration
	RID, International Carriage of Dangerous Goods by Rail
	SDS, Safety Data Sheet
	STEL, Short-term Exposure Limit
	STOT, Specific target organ toxicity
	TWA, Time Weighted Average
	UN, United Nations
	vPvB, very persistent, very bioaccumulative
	WEL, Workplace Exposure Limit

Phrases used in s.2 and s.3:	EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
	H226: Flammable liquid and vapour. H300: Fatal if swallowed.
	H301: Toxic if swallowed. H310: Fatal in contact with skin.
	H315: Causes skin irritation. H317: May cause an allergic skin reaction.
	H319: Causes serious eye irritation. H330: Fatal if inhaled.
	H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.