SAFETY DATA SHEET

[IN ACCORDANCE WITH THE CRITERIA OF REGULATION NO 1907/2006 (REACH) AND 2020/878]

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

1.1 Product identifier

Cherry Ice 20mg/ml45vg FC24759 nicotine e-liquid

UFI:N/A

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

Identified uses: E-liquids for electronic cigarettes.

Uses advised against: not determined

1.3 Details of the supplier of the safety data sheet

Company: Hangsen Grand Technology (Dongguan) co. , Ltd

Address: Room 301,Building 2, no. 1 Jinqi Road, Fenggang Town, Dongguan City , Guangdong Province

Telephone: +86 0769-82009663

E-mail address: hxatc@cnhanxing.com

1.4 Emergency telephone number

Telephone: EU 112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation1272/2008(EC)

Acute Tox.3 (H301)

Eye Irrit.2 (H319)

STOT RE 2 (H373)

2.2 Label elements

Classification elements according to Regulation 1272/2008(EC)

Hazard pictograms and signal words

DANGER

Names of components on the label

Contains: Nicotine, Benzoic acid,Lactic acid

Hazard phrases

H301: Toxic if swallowed.

H319: Causes serious eye irritation

H373: May cause damage to organs through prolonged or repeated exposure.

Safety phrases

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

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

P405：Store locked up.

P501: Dispose of contents/container to designated places in accordance with local/regional/national/international regulations.

2.3 Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU)2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No.1907/2006 (REACH) as amended

Section 3: Composition/information on ingredients

3.1 Substance

Not applicable. Please refer to 3.2 for more information.

3.2 Mixtures

Components:				
Name	CAS number	EC number	Classification acc. to	Weight %

			1272/2008/EC	content
Glycerol	56-81-5	200-289-5	Not Classified	45.00
1,2-Propylene glycol	57-55-6	200-338-0	Not Classified	44.42
Benzyl alcohol	100-51-6	202-859-9	Acute Tox.4 (H302) Acute Tox.4 (H332)	3.29
Trimethyl isopropyl butanamide	51115-67-4	256-974-4	Acute Tox. 4 (H302)	1.93
Nicotine	54-11-5	200-193-3	Acute Tox. 2（H330） Acute Tox. 2（H310） Acute Tox. 2（H300） Aquatic Chronic 2（H411） ATEs: Inhalation: ATE = 0.19 mg/L (dusts or mists) Dermal: ATE = 70 mg/kg bw Oral: ATE = 5 mg/kg bw	1.79
Benzoic acid	65-85-0	200-618-2	Skin Irrit.2 (H315) Eye Dam.1 (H318) STOT RE 1 (H372)	1.13
Propanoic acid	79-09-4	201-176-3	Skin Corr.1B (H314) STOT SE 3; H335: C ≥ 10 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	0.59
Acetic acid	64-19-7	200-580-7	Flam. Liq.3 (H226) Skin Corr.1A (H314) Specific Conc. Limits (SCL): Skin Corr. 1A (H314): C ≥ 90 % Skin Corr. 1B (H314): 25 % ≤ C< 90 % Skin Irrit. 2 (H315): 10 % ≤ C< 25 % Eye Irrit. 2 (H319): 10 % ≤ C < 25 %	0.45
Lactic acid	50-21-5	200-018-0	Skin Corr. 1C(H314) Eye Dam.1 (H318) EUH071	0.39
Ethyl butyrate	105-54-4	203-306-4	Flam. Liq.3 (H226) Eye Irrit.2 (H319)	0.34
Benzaldehyde	100-52-7	202-860-4	Acute Tox.4 (H302)	0.19
Leaf alcohol	928-96-1	213-192-8	Flam. Liq.3 (H226) Eye Irrit.2 (H319)	0.15
1-Hexanol	111-27-3	203-852-3	Flam. Liq.3 (H226) Acute Tox.4(H302) Acute Tox. 4(H312) Eye Irrit. 2(H319)	0.12
Vanillin	121-33-5	204-465-2	Eye Irrit.2 (H319)	0.11
1,2-Propanediol,1-acetate	627-69-0	613-080-2	Flam. Liq. 4 (H227) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 H335 (Respiratory tra...) (inhalation)	0.10

Additional information
Substances for which there are Union workplace exposure limits are listed in SECTION 8.
For full text of H-statements: see SECTION 16.

Section 4: First aid measures

4.1 Description of first aid measures
Skin contact: take off contaminated clothing. Wash the contaminated skin with water and soap. Immediately consult a doctor.
Eye contact: remove contact lenses. Wash the contaminated eye with plenty of water for at least 15 minutes. Avoid powerful water stream. Consult a doctor if disturbing symptoms occur.
Ingestion: do not induce vomiting. Rinse mouth with water. Never 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 disturbing symptoms appear.
4.2 Most important symptoms and effects, both acute and delayed
None reasonably foreseeable
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. Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: Foam, dry extinguishing agents, water spray.
Unsuitable extinguishing media: Water jet - risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture
During the fire, the product may produce toxic fumes of carbon monoxide and dioxide, nitric oxides and other unidentified products of thermal decomposition. Do not inhale combustion products.
5.3 Advice for firefighters
Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

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 suitable cleaning operations are completed. In case of large spills, isolate the exposed area. Avoid contact with skin and eyes. Use personal protective measures.
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. Material may be hazardous if released in large quantities to the environment. Notify relevant emergency services.
6.3 Methods and material for containment and cleaning up
Damaged container put in emergency container. Absorb leakage with incombustible liquid-binding material (e.g. sand, earth, universal binders, silica, vermiculite) and collect mechanically into properly labeled containers for disposal. Clean the contaminated place.
6.4 Reference to other sections
See the Section 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good occupational hygiene and safety practices. Avoid skin and eyes contamination. Before break and after work wash hands carefully. Use personal protective measures. Ensure adequate ventilation. Do not let the product to get into mouth.
7.2 Conditions for safe storage, including any incompatibilities
Keep only in original, tightly closed containers in a cool and well-ventilated area. Keep away from food, beverages or feed for animals. Avoid direct exposure to sunlight. Keep away from strong acids and oxidizing agents. After opening, seal the container and store in an upright position to prevent leakage.
7.3 Specific end use(s)
Liquid filling for e-liquid.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Substance	Country	OEL value

Benzoic acid	REACH Regulations	6.3mg/m^3 Inhalation, local effects Long-term exposure 10.4mg/m^3 Inhalation, systemic effects Long-term exposure
Nicotine	Work evaluating existing limits, Germany, Denmark, France, Norway, Belgium, Spain, Ireland	0.5 mg/m^3 (8 h)
	Finland, United Kingdom	0.5 mg/m^3 (8 h) 1.5 mg/m^3 (15 min)
	Austria, Switzerland	0.5 mg/m^3 (8 h) 2 mg/m^3 (15 min)
	Sweden	0.1 mg/m^3 (8 h)
	Ireland	470 mg/m^3 (8 h)- Vapor and particulates 10 mg/m^3 (8 h)- Particulates
Glycerol	American Conference of Governmental Industrial Hygienists	79 mg/m^3 (8 h)
	REACH Regulations	56 mg/m^3 Inhalation, local effects Long-term exposure
	Finland	20 mg/m^3 (8 h)
	France, United Kingdom, Switzerland, Belgium, Spain, Ireland	10 mg/m^3 (8 h)
1,2-Propylene glycol	REACH Regulations	10 mg/m^3 Inhalation, local effects Long-term exposure 168 mg/m^3 Inhalation, systemic effects Long-term exposure
	United Kingdom	474 mg/m^3 (8 h)
	Norway	79 mg/m^3 (8 h)
	Ireland	470 mg/m^3 (8 h)- Vapor and particulates 10 mg/m^3 (8 h)- Particulates

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC.

Recommended control procedures

Procedures Concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace in Accordance with the European Standards.

8.2 Exposure controls:

Use the product in accordance with good occupational hygiene and safety practices. Ensure exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure eye stations and safety showers.

Hand and body protection:

In case of short term contact use protective gloves made of nitrile rubber (minimal thickness: 0.2 mm; breakthrough time > 30 minutes). In case of long term contact use protective gloves made of butyl rubber (minimal thickness: 0.3 mm, breakthrough time > 480 minutes).

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.

Eye/face protection:

Wear tightly fitting safety glasses if there is a risk of eye contamination.

Respiratory protection:

In case of normal use, in accordance with the intended use, it is not necessary.

Applied personal protective equipment must comply with the requirements of the Directive 89/686/EC. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Thermal hazard:

Not available.

Environmental exposure controls:

Do not allow to enter large amounts of product to reach ground water, sewage, waste water or soil.

Section9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state：Liquid

Colour： Yellow

Odour： fruity

Odour threshold : Not available

Melting/freezing point : Not available
Boiling point or initial boiling point and boiling range: Not available
Flammability (solid, gas) : Not available
Lower and upper explosion limit: Not available
Flash point : Not available
Auto-ignition temperature: Not available
Decomposition temperature : Not available
pH: Not available
Kinematic viscosity: Not available
Solubility(ies) : Not available
Partition coefficient(n-octanol/water: Not available
Vapour pressure : Not available
Relative density (water = 1 g/mL): 1.1124
Relative vapour density : Not available
Particle characteristics: Not available

9.2 Other information

Information with regard to physical hazard classes

Hazard class: Data
Explosives: Not available
Flammable gases: Not available
Aerosols: Not available
Oxidising gases: Not available
Gases under pressure: Not available
Flammable liquids: Not available
Flammable solids: Not available
Self-reactive substances and mixtures: Not available
Pyrophoric liquids: Not available
Self-heating substances and mixtures: Not available
Oxidising liquids: Not available
Oxidizing solids: Not available
Organic peroxides: Not available
Corrosive to metals: Not available
Desensitised explosives: Not avaiable

Other safety characteristics

Safety characteristics： Results
Mechanical sensitivity： Not avaiable
Self-accelerating polymerisation temperature： Not avaiable
Formation of explosible dust/air mixtures： Not avaiable
Acid/alkaline reserve： Not avaiable
Evaporation rate： Not avaiable
Miscibility： Not avaiable
Conductivity： Not avaiable
Corrosiveness： Not avaiable
Gas group： Not avaiable
Redox potential： Not avaiable
Radical formation potential： Not avaiable
Photocatalytic properties： Not avaiable

Section10: Stability and reactivity

10.1 Reactivity: Product is feebly reactive. Product does not undergo a dangerous polymerization. See also 10.4-10.5
10.2 Chemical stability: The product is stable under normal storage and using condition.
10.3 Possibility of hazardous reactions: Dangerous reactions are not known.
10.4 Conditions to avoid: Avoid direct exposure to sunlight.
10.5 Incompatible materials: Strong oxidizing agents, acids.
10.6 Hazardous decomposition products: Not available

Section11:Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicity of components

LD/LC50 values relevant for classification:		
CAS: 54-11-5 Nicotine		
Oral Dermal Inhalation	LD50 LD50 LC50	5 mg/kg bw 70 mg/kg bw 0.19 mg/L (dusts/mists)

Toxicity of the mixture

The acute toxicity estimate (ATEmix) for the classification of a substance in a mixture was determined using the appropriate value from ECHA website.

Acute toxicity

ATEmix (oral) = 279.3 mg/kg bw (Acute Tox. 3 (H301))

ATEmix (dermal) =3910.6mg/kg bw (Not classified)

ATEmix (inhalation) =10.6 mg/L (Not classified)

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitization:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

Summary of evaluation of the CMR properties:

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

STOT-single exposure:

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

STOT-repeated exposure:

May cause damage to lungs through prolonged or repeated exposure if inhaled.

Aspiration hazard:

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

11.2 Information on other hazards

Endocrine disrupting properties：

The mixture not contain endocrine disruptor.

Other information：

Not available.

Section12:Ecological information

12.1 Toxicity:

Parameters of environmental toxicity:	
CAS: 54-11-5 Nicotine	
Classification:	Aquatic Chronic 2 (H411)
Fish (*Onchorhynchus mykiss*) Fish (fresh water) Daphnia (*Daphnia magna*) Alga (*Desmodesmus subspicatus*)	LC50-96h = 4 mg/L 3-29 ppm EC50-48h = 0.24 mg/L EC50-72h = 37 mg/L

According to Regulation (EC) No 1272/2008, this product met the criteria of classification of environmental toxicity Aquatic Chronic 3.

12.2 Persistence and degradability:

Data for the mixture are not available.

Glycerol	Biodegradation in water	Readily biodegradable
1,2-Propylene glycol	OECD Guideline 301F Biodegradation in soil Phototransformation in water	81% biodegradation High concentrations of Propylene glycol released into a soil environment can be expected to biodegrade. DT50 = 1.3 year
Benzyl alcohol	OECD Guideline 301 C OECD Guideline 301 A	92-96% degradation after 14 days 95-97% degradation after 21 days
Nicotine	OECD Guideline 301B	71% degradation after 28 days
Benzoic acid	OECD Guideline 311 (equivalent or	>= 89 % over 21-35 days

	similar to)	
Acetic acid	Biodegradation in water	96% degradation after 20 days
Lactic acid	EU Method C.5, EU Method C.6	Readily biodegradable, but failing 10-day window
Benzaldehyde	Biodegradation in water	Readily biodegradable
Leaf alcohol	OECD Guideline 301 F	77% degradation after 28 days
Vanillin	OECD Guideline 301 C	97-100% degradation after 14 days

12.3 Bioaccumulative potential:
Data for the mixture are not available.

Nicotine	
Log Pow	1.17 (pH=12.17)
1,2-propylene glycol	
BCF	0.09
Glycerol	
Log Pow	-1.75 (pH=7.4, 25 ℃)

12.4 Mobility in soil:
Data for the mixture are not available.

1,2-propylene glycol	
Koc Henry's Law constant	2.9 (calculated from log Pow = -1.07 using the equation from the TGD (non-hydrophobics) 0.06 atmm^3/mol (12 ℃)
Glycerol	
Henry's Law Constant (H):	0 atmm^3/mol

12.5 Results of PBT and vPvB assessment:
Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006(REACH) as amended.

12.6 Endocrine disruption properties
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects:
The mixture is not classified as hazardous to the ozone layer.

Section13:Disposal considerations

13.1 Waste treatment methods
Disposal method for the product: disposal in accordance with the local legislation. Do not empty into drains. Waste code should be given in the place of waste formation. The classification of this waste meets criteria for dangerous waste. Disposal methods for used packing: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation. The classification of this waste meets criteria for dangerous waste.
Legal Basis: Directive 2008/98/EC..

Section14:Transport information

14.1. UN number or ID number:
ADR: UN 3144
IMDG: UN 3144
ICAO: UN 3144
14.2. UN proper shipping name:
ADR: NICOTINE PREPARATION, LIQUID, N.O.S. (nicotine)
IMDG: NICOTINE PREPARATION, LIQUID, N.O.S.(nicotine)
ICAO: NICOTINE PREPARATION, LIQUID, N.O.S. (nicotine)
14.3. Transport hazard class(es):
ADR: Class 6.1: Toxic substances
IMDG class: Class 6.1: Toxic substances
ICAO class: Class 6.1: Toxic substances
Transport pictograms on the label:

14.4. Packing group:
ADR: Ⅲ
IMDG: Ⅲ
ICAO: Ⅲ
14.5. Environmental hazards:
Not available
14.6. Special precautions for user:
Move carefully to prevent leakage during carriage. Keep necessary protective articles at hand in case of accident. Use emergency escape mask when in need.
14.7. Maritime transport in bulk according to IMO instruments:
Not available.

Section15: 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, labeling 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).
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
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.
Economic commission for Europe Committee on Inland Transport ECE/TRANS/257(Vol. Ⅰ) of applicable as from 1 January 2017 European Agreement concerning the International Carriage of Dangerous (ADR)
Convention concerning International Carriage by Rail (COTIF): Appendix C – Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) with effect from 1 January 2017.
Technical Instructions for the Safe Transport of Dangerous Goods by Air: Order Number: Doc 9284, 2017-2018 Edition.
15.2 Chemical safety assessment:
A Chemical Safety Assessment is not required for mixtures in accordance with REACH Regulation.

Section16: Other information

Full text if indicated H phrases mentioned in section 2,3:
H226: Flammable liquid and vapor
H300: Fatal if swallowed.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H310: Fatal in contact with skin.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H330: Fatal if inhaled
H335: May cause respiratory irritation.
H372: Causes damage to organs.
H373: May cause damage to organs.
H411: Toxic to aquatic life with long lasting effects.
Clarifications of aberrations and acronyms
Acute Tox. 4: Acute toxicity, Category 4
Aquatic Acute 1: Hazardous to the aquatic environment, acute Category 1
Aquatic Chronic 1, 2, 3: Hazardous to the aquatic environment, long-term hazard Category 1, 2, 3

Asp. Tox. 1: Aspiration toxicity, Category 1
Eye Irrit. 2: Serious eye irritation, Category 2
Flam. Liq. 3: Flammable liquid, Category 3
Skin Irrit. 2: Skin irritation, Category 2
Skin Sens. 1, 1B: Skin sensitization, Category 1, 1B
STOT SE 3: Specific target organ toxicity-single exposure, Category 3
PBT: Persistent, Bioaccumulative and Toxic substance
vPvB: very Persistent, very Bioaccumulative substance
OECD: Organisation for Economic Co-operation and Development
OEL value: Occupational exposure limit value
LoW: List of Wastes

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.

Key literature references and sources for data:

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (eg. ECHA) as well as our knowledge and experience, taking into account current legislation.

Methods of evaluating information which was used for the purpose of classification acc. Regulation (EC) No 1272/2008

Acute Tox.3 (H301) :calculation method

Eye Irrit.2 (H319) :calculation method

STOT RE 2 (H373):calculation method

Methods of evaluating information which was used for the purpose of transport acc. ECE/TRANS/242 (Vol.I):

Not applicable

Other data

Purity of the ingredients present in Section 3 is > 85%, and does not affect the classification.

Creation date: 07/04/2024(HXY) Version: 1.0:

THIS SDS ANNULS AND REPLEACES ALL PREVIOUS VERSIONS

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