Safety Data Sheet

according to Regulation (EC) No`s 1907/2006, 1272/2008 and Amendments

Totally Wicked Ultra Nic Salts E-Liquid Mixed Berries (2.0% w/v)

UFI: V538-UNW8-F20H-N4YU

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SECTION 1. Identification of the substance/mixture and of the company undertaking

1.1. Product identifier

Product name: Totally Wicked Ultra Nic Salts Mixed Berries E-Liquid. Nicotine concentration 20mg/ml. Each unit product contains 10ml of e-liquid.

Chemical name: Active ingredient: Nicotine
3-(N-methyl-1,2-pyrrolidin-2-yl)-pyridine.

Pure substance/mixture: Mixture contains nicotine

Chemical family: Active ingredient – Nitrogen Heterocyclic compound.

Formula: $C_{10}H_{14}N_2$

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

Recommended use: For use in electronic cigarette devices.

Uses advised against: Not to be used for any other purpose.

1.3. Details of the supplier of the safety data sheet

Company: Pillbox38 (UK) Ltd.
Stancliffe Street,
Blackburn, Lancashire,
BB2 2QR, United Kingdom (UK)

Telephone: +44 (0)1254 692244

For further information, please contact:

E-mail address: info@totallywicked.co.uk

1.4. Emergency telephone number

Emergency telephone number: +44 (0)1254 692244

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Not Classified
Chronic aquatic toxicity	Not Classified

Physical hazards: None

Classification according to EU Regulation No. 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.

2.2. Label elements

Signal word: Danger
Hazard statements: H301 –Toxic if swallowed.
Pictogram:

Precautionary statements – EU (No. 1272/2008):

P264: Wash hands thoroughly after handling.
P301 + P310: IF SWALLOWED: Immediately call a POISON centre or doctor /physician
P330: Rinse mouth.
P405: Store locked up.
P501: Dispose of contents to waste water after dilution.

SECTION 3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature of preparation: Nicotine containing e-liquid.

Chemical Name	EC-No.	CAS-No.	Quantity (w/w)	Classification	EU-GHS Substance Classification	REACH No.
Propylene glycol	200-338-0	57-55-6	45.9	unclassified	unclassified	No data available
Glycerol	200-289-5	56-81-5	45.1	unclassified	unclassified	No data available
Purified Water, USP	231-791-2	7732-18-5	1.2	unclassified	unclassified	No data available
Flavouring substances	-	-	4.7	unclassified	unclassified	No data available
Nicotine benzoate	828-490-9	88660-53-1	3.1	T; R25 T+; R27 N; R51-53	Acute Tox.2 (H300) Acute Tox.2 (H310) Acute Tox.2 (H330) Aquatic Chronic 2 (H411)	No data available

SECTION 4. First-aid measures

4.1. Description of first-aid measures

General advice: Immediate medical attention is required.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue to flush for at least 15 minutes. Keep eye wide open while rinsing. Seek immediate medical attention/advice.

Skin contact: Immediate medical attention is required. Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.

Ingestion: Immediate medical attention is required. Call a physician or the Poison Control Centre immediately. DO NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Seek immediate medical attention / advice.

Protection for first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

Most important symptoms/effects: Nausea. Tremors. Headaches. Dizziness. Salivation. Diarrhoea. CNS depression. Difficulty breathing. Shortness of breath. Respiratory failure.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing measures: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Advice for firefighters

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people away and upwind of spill/leak. Use personal protective equipment. Do not get in eyes, on skin or on clothing. Do not breathe vapours or spray mist. Ensure adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and clean up

Prevent further leakage or spillage if safe to do so. Use personal protective equipment.

Small spillage: Wipe liquids with wet absorbent gauze. Clean contaminated surface thoroughly.

Large spillage: Gently cover spills with damp clothes or towels. Be sure not to generate dust or aerosols. Access to the spill areas should be restricted. All contaminated surfaces should be cleaned. Collect in suitable and properly labelled containers.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapour/dust. Remove and wash contaminated clothing before re-use.

Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing and gloves before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry and ventilated area away from heat sources. Keep away from direct sunlight. Protect from physical damage or potential leakage.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Chemical Name	UK	EU
Propylene Glycol 57-55-6	TWA: 10 mg/m^3	
Glycerol 56-81-5	TWA: 10 mg/m^3	
Nicotine 54-11-5	STEL: 1.5 ppm TWA: 0.5 mg/m^3 skin	TWA: 0.5 mg/m^3 S*

8.2. Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Eye protection: If splashes are likely to occur, wear safety glasses with side shields.

Skin/body protection: Wear impervious gloves and clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be work. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls: Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

SECTION 9. Physical and chemical properties

9.1. Information on basic chemical and physical properties

Physical state: Liquid

Appearance: Clear to straw yellow liquid. Turns light brown upon exposure to air.

Odour: Characteristic assessed against standard.

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting point/ Melting range	No data available	None known
Boiling point/ Boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	1.13 @ 20 degrees ºC	Oscillating U-tube
Water solubility	Soluble	
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Auto-ignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Viscosity	184cP @ 25 degrees ºC	TW-FP-07-01-10-V1 Brookfield Ametek Viscometer
Explosive properties	No data available	None known
Oxidizing properties	No data available	None known

SECTION 10. Stability and reactivity

10.1. Reactivity

Not reactive under normal conditions. This compound is photo-sensitive and will turn light to dark brown upon exposure to air.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat. Protect from light.

10.5. Incompatible materials

Strong acids. Oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

SECTION 11. Toxicological information

11.1. Acute toxicity

Product information: Symptoms of acute nicotine toxicity include pallor, cold sweat, nausea, salivation, vomiting, abdominal pain, diarrhoea, headache, dizziness, disturbed hearing and vision, tremor, mental confusion, weakness and cyanosis. Prostration, hypotension and respiratory failure may ensue with large overdoses. Lethal doses produce convulsions quickly and death follows as a result of peripheral or central respiratory paralysis or, less frequently, cardiac failure.

Inhalation: May be harmful if inhaled. May cause irritation of the respiratory tract.

Eye contact: Contact with eyes may cause irritation.

Ingestion: Harmful if swallowed.

Toxicological data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Propylene Glycol	20000 mg/kg (Rat)	>10 g/kg (Rabbit)	>570 mg/m^3 (rat) 1 hr
Glycerol	12600 mg/kg (Rat)	>10 g/kg (Rabbit)	>570 mg/m^3 (rat) 1 hr
Nicotine	5 mg/kg bw (ATE, ECHA 2015)	70 mg/kg (ATE, ECHA 2015)	0.19 mg/L (ATE, ECHA 2015)

Sensitization: No information available.

Mutagenic effects: Neither nicotine nor cotinine (metabolite) were mutagenic in the Ames salmonella test. Nicotine induced repairable DNA damage in an E.coli test system. Studies have shown a decrease in litter size in rats treated with nicotine during gestation.

Carcinogenic effects: Nicotine does not appear carcinogenic in laboratory animals.

Reproductive toxicity: Nicotine crosses the placenta and is freely distributed into the milk, reporting producing concentrations in breast milk averaging 2.9 times those in plasma.

Developmental toxicity: Embryotoxicity was observed in animal studies at doses where maternally toxic.

STOT – single & repeat exposure: See list.

Target organ effects: Skin. Eyes. Respiratory system. Central nervous system (CNS). Ears. Gastrointestinal tract (GI). Cardiovascular system. Blood.

Aspiration hazard: No information available.

SECTION 12. Ecological information

12.1. Toxicity

Ecotoxicity effects:

The following data is available for freebase nicotine:

EC50 (Daphnia pulex water flea, age <24 hr neonate) 48 hours = 242 µg/L; conditions: freshwater, static, 20 °C, pH 7.6-8.0, hardness 160-180 mg/L $CaCO_3$, alkalinity 110-120 mg/L $CaCO_3$, dissolved oxygen 60-100 mg/L; Effect intoxication, immobilisation > or = 97% purity.

12.2. Persistence and degradability

No data available for product.

12.3. Bioaccumulative potential

No data available for product.

12.4. Mobility in soil

Expected due to solubility.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

The product contains no known or suspected endocrine disruptors.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/ unused products: Dispose according to local regulations.

Contaminated packaging: Dispose in accordance to local regulations.

SECTION 14. Transportation information

14.1. UN number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Hazard class	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions	Not applicable

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC code Not applicable

14.8 Harmonized System (HS) Code 2404 1200 00

SECTION 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Authorisations: Not applicable

Restrictions on use: Not applicable

15.2 Chemical safety assessment

For this product, a chemical safety assessment was not carried out.

SECTION 16. Other information

GENERAL DISCLAIMER

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Pillbox38 (UK) Limited will not be held responsible for any damage resulting from handling or from contact with the above product as it is the user's obligation to determine the conditions of safe use.

End of Safety Data Sheet

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