



Cuttwood Tobacco Trail Zero Nicotine

SAFETY DATA SHEET

Version: 1.0 Date: June 19, 2017

ACCORDING TO EU REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name
Cuttwood Tobacco Trail (Zero Nicotine)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s)
Uses Advised Against
Electronic cigarette liquid
Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**

Company Identification (EU entity)
Cuttwood Transatlantic Ltd.
38/39 Fitzwilliam Square
Dublin 2, Ireland
+353 1 507 9604
info@Cuttwood.com

Company Identification (non-EU entity)
Cuttwood, LLC
1622 Deere Avenue
Irvine, California USA 92606
+1 949 371 2057
info@Cuttwood.com
- 1.4 Emergency telephone number**
In the UK:
 - to see a medical professional: contact your local doctor or hospital.
 - to seek medical advice for non emergency medical assistance: phone 111 (NHS Direct) (Opening hours: [24] hours a day / [7] days a week, Languages: English).
 - to seek emergency medical assistance: phone 999 (ambulance service) (Opening hours: 24 hours a day / 7 days a week, Languages: English)
 - to seek European National Helpdesk Guidance, see: http://echa.europa.eu/help/nationalhelp_contact_en.asp
<https://echa.europa.eu/support/helpdesks>
 - to seek other assistance and advice: phone +353 1 507 9604 (Opening hours: Monday – Friday 9:00am – 5:00pm local time, Languages: English) in EU or +1 949 371 2057 (Opening hours: Monday – Friday 9:00am – 5:00pm local time, Languages: English) in USA.

SECTION 2: HAZARD IDENTIFICATION

- 2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)**

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. A safety data sheet is being supplied for this product as it contains a hazardous component included at or above the concentration limit for elicitation.
- 2.2 Label elements**
Product Name
Contains:
Hazard Pictogram(s)
Cuttwood Tobacco Trail (Zero Nicotine)
Not applicable
Not applicable



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Signal Word(s) Not applicable

Hazard Statement(s) Not applicable

Precautionary Statement(s) Not applicable

2.3 Other hazards None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
2-ethyl-3-hydroxy-4-pyrone	< 5	4940-11-8	225-582-5	Not yet assigned in the supply chain	Acute Tox. 4; H302

Note: For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Ensure adequate ventilation. Avoid breathing vapours. Wear suitable protective clothing and gloves. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse.

Inhalation

IF INHALED: If large amounts are inhaled due to spillage or other accidents / incidents / usage / handling, and if breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact

IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show the container, product leaflet and/or this document.

4.2 Most important symptoms and effects, both acute and delayed

If swallowed in large quantities; harmful.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to a physician:

Treat symptomatically.

If significant exposure occurs, seek medical advice and monitor patient carefully for acute effects for 4-6 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media

Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides.



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5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Shut off leaks if without risk. Ensure adequate ventilation. Avoid breathing vapours. Ensure suitable personal protection during removal of spillages. Plastic or rubber gloves, boots, suit and hood giving complete protection to head, face and neck. See chapter 8 of the safety data sheet (Personal protection equipment). Avoid contact with skin and eyes. Care must be taken to wash down suit, gloves and boots before removal.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Provided it is safe to do so, isolate the source of the leak. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Disposal should be in accordance with local, state or national legislation.

6.4 Reference to other sections

See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. In the case of spillage, broken containers and/or other accidents/incidents, avoid breathing vapours. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin and eyes. Wear protective gloves/eye protection. Do not eat, drink or smoke when using this product. Wash hands and exposed skin after use. Contaminated clothing should be laundered before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature
Incompatible materials

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

Keep cool. Protect from sunlight. Avoid contact with moisture.

Strong oxidising agents

7.3 Specific end use(s)

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Propane-1,2-diol, total vapour & particulates [~]	57-55-6	150	474	-	-	WEL
Propane-1,2-diol, particulates [~]		-	10	-	-	WEL
Glycerol, mist [~]	56-81-5	-	10	-	-	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40).

[~]This substance is not listed in Section 3 of this SDS as it is deemed 'Not hazardous' under CLP (EC) 1272/2008 and does not meet any of the requirements of Commission Regulation (EU) 2015/830 section 3.2.1 or 3.2.2.

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established. No component of the product has been registered under REACH Regulation (EC) No 1907/2006 within the supply chain.



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8.2 Exposure controls

8.2.1 Appropriate engineering controls

Atmospheric levels should be controlled in compliance with the occupational exposure limit. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Control any potential exposure using measures such as contained or enclosed systems, properly designed and maintained facilities and a good standard of general ventilation. Where there is potential for exposure: Ensure relevant staff are informed of the nature of exposure and aware of basic actions to minimise exposures; Ensure suitable personal protective equipment is available; Clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; consider the need for health surveillance; identify and implement corrective actions.

Eye/ face protection



Use eye protection according to EN 166, designed to protect against liquid splashes. Have available eyewash bottle with clean water. Do not wear contact lenses when working with this material.

Skin protection



Handling of larger amounts, due to, for example: spillage; or broken containers; or continuous handling; etc

Body protection: Chemical protection suit, boots and plastic or rubber gloves. Prevent skin contact. Contaminated clothing should be thoroughly cleaned. Care must be taken to wash down suit, gloves and boots before removal.

Hand protection: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Follow proper glove removal procedure (turning each glove inside out without coming into contact with exterior surface). Recommended: Nitrile rubber, breakthrough time 120 min, protection class 4 or higher

Respiratory protection



If there is: (1) an accident or incident, such as a spillage or broken containers, involving large amounts of liquid; and/or (2) where the occupational exposure limit is exceeded: use respiratory protection. Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. In case of inadequate ventilation wear respiratory protection. Recommended: Organic vapor cartridge with a particulate pre-filter, type AP2

Thermal hazards

No specific measures identified. Assumes activities are at ambient temperature (unless stated differently).

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colorless or amber liquid.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Initial boiling point and boiling range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not applicable.



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Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Not determined.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not determined.
Explosive properties	Components of the mixture do not contain any chemical groups indicating explosive properties.
Oxidising properties	Components of the mixture do not contain any chemical groups indicating oxidising properties.
9.2 Other information	None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Keep cool. Protect from sunlight. Avoid contact with moisture. Keep away from: Incompatible materials.
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition product(s)	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	All test data taken from existing ECHA registrations for the substances mentioned.
Acute toxicity - Ingestion	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
2-ethyl-3-hydroxy-4-pyrone	Acute Tox. 4; H302 LD50 = 780 mg/kg (mouse)
Acute toxicity - Inhalation	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >5 mg/l (Mist)
2-ethyl-3-hydroxy-4-pyrone	Not classified. No data.
Acute toxicity - Skin Contact	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
2-ethyl-3-hydroxy-4-pyrone	Not classified. No data
Skin corrosion/irritation	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Not classified. No data
Serious eye damage/irritation	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Not classified. No data
Respiratory or skin sensitization	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Skin: Sensitisation - Not classified. No data Respiratory system: Sensitisation - Not classified. No data.
Germ cell mutagenicity	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	In vitro: Not classified. Negative (Bacteria) In vivo: Not classified. Negative (mouse)
Carcinogenicity	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Not classified. No evidence of carcinogenicity (rat/mouse).
Reproductive toxicity	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Toxicity for reproduction: Not classified. NOAEL > 200 mg/kg (rat/dog) Developmental Toxicity: Not classified. NOAEL > 200 mg/kg (rat/dog)
STOT - single exposure	Mixture: Based on available data, the classification criteria are not met.
2-ethyl-3-hydroxy-4-pyrone	Not classified. No data.



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STOT - repeated exposure

2-ethyl-3-hydroxy-4-pyrone

Aspiration hazard

2-ethyl-3-hydroxy-4-pyrone

11.2 Other information

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

Oral: Not classified. No data.

Inhalation: Not classified. No data.

Dermal: Not classified. No data.

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

Not classified. No data.

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

2-ethyl-3-hydroxy-4-pyrone

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

Acute: Not classified. No data.

Chronic: Not classified. No data.

12.2 Persistence and degradability

2-ethyl-3-hydroxy-4-pyrone

The product is not persistent in the environment.

No data.

12.3 Bioaccumulative potential

2-ethyl-3-hydroxy-4-pyrone

The product has low potential for bioaccumulation.

No data.

12.4 Mobility in soil

2-ethyl-3-hydroxy-4-pyrone

The product is predicted to have high mobility in soil. Solubility (Water) >1000 g/l

No data.

12.5 Results of PBT and vPvB assessment

2-ethyl-3-hydroxy-4-pyrone

None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.

Not a PBT according to REACH Annex XIII.

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Do not release undiluted and unneutralised to the sewer. Containers of this material may be hazardous when empty since they retain product residue.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not classified as a Marine Pollutant.	Not applicable
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable
14.8 Additional Information	None.		

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or Restrictions On Use

Other EU regulations

15.1.2 National regulations

None applicable to the product.

None applicable to the product.

None applicable to the product.



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15.2 Chemical Safety Assessment

2-ethyl-3-hydroxy-4-pyrone
Propane 1,2-diol
Glycerol

A REACH chemical safety assessment has not been carried out.
A REACH chemical safety assessment has not been carried out.
A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

Existing ECHA registration(s) for Glycerol (CAS No. 56-81-5), Propane 1,2-diol (CAS No. 57-55-6). US EPA Exemption from the Requirement of a Tolerance for 2-ethyl-3-hydroxy-4-pyrone (CAS No. 4940-11-8), 70 FR 37688.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Not classified	Classification assessment based on the test data included within section 11 and application of the principles of CLP 1272/2008

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic

Hazard classification / Classification code:

Hazard Statement(s)

Acute Tox. 4; Acute toxicity, Category 4

H302: Harmful if swallowed.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable. A REACH chemical safety assessment has not been carried out.