



MATERIAL SAFETY DATA SHEET

According to EU regulation No. 2020/878

Effective date: 3.1.2024

Version: 1.0/EN

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

1.1 Product identification

Product Name: Test e-liquid 0mg/g

Product Number: 1007006N00

UFI: Not available

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

Identified uses: liquid filling for electronic cigarettes

Uses advised against: not determined

1.3 Details of the supplier of the safety data sheet

Company: Wohler Retrotec, Inc.

Address: 1060 E Pole Rd, Everson WA 98247

Telephone: 1-855-738-7683

E-mail address: sales@retrotec.com

1.4 Emergency telephone number

Telephone: Emergency Number 911

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation 1272/2008/EC

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. However a safety data sheet is being supplied for it upon request as it contains a substance for which there is a Union workplace exposure limit.

2.2 Label elements

Hazard pictograms and signal words

Not available

Hazard phrases

H302: Harmful if swallowed

Safety phrases

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

P102: Keep out of reach of children.

Names of components on the label

Contains: -

2.3 Other hazards:

- Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
- Product does not contain endocrine disruptors in accordance with Regulations (EU) No 528/2012 and (EC) No 1107/2009.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable. Please refer to 3.2 for more information

3.2 Mixtures:

NAME	CAS NO.	CLASSIFICATION ACCORDING TO EU CLP REGULATIONS	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Weight % Content
Propylene Glycol	57-55-6	Substance is not classified as hazardous.	/	50.000
Glycerol	56-81-5	Substance is not classified as hazardous.	/	50.000

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 Other hazards:

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: Section 13 and section 8.

SECTION 7 - HANDLING & 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
Propylene Glycol	REACH Regulations	10mg/m ³ Inhalation, local effects Long-term exposure 168mg/m ³ Inhalation, systemic effects Long-term exposure
	United Kingdom	474mg/m ³ (8 h)
	Norway	79mg/m ³ (8 h)
	Ireland	470mg/m ³ (8 h)-Vapor and particulates 10mg/m ³ (8 h)-Particulates

Glycerol	American Conference of Governmental Industrial Hygienists	79mg/m ³ (8 h)
	REACH Regulations	56mg/m ³ Inhalation, local effects Long-term exposure
	Finland	20mg/m ³ (8 h)
	France, United Kingdom, Switzerland, Belgium, Spain, Ireland	10mg/m ³ (8 h)
	France	25mg/m ³ (15 min)
	Belgium	25mg/m ³ (8 h) 38 mg/m ³ (15 min)
	Spain, Ireland	25 mg/m ³ (8 h) 37 mg/m ³ (15 min)

Legal Basis: Commission Directive 2006/15/EC, 200/39/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: 0.2mm; 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 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.

8.3 Environmental exposure controls:

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

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: liquid

Color: Light yellow oily

Odor: Test e-liquid

Odor threshold: Not available

pH: 4.83±0.50

Melting point/freezing point(°C): Not available

Initial boiling point and boiling range(°C): Not available

Flash point(°C): > 100 (Closed cup)

Evaporation rate: Not available

Flammability (solid, gaseous): This product is liquid, not available

Upper/lower explosive limits[%(v/v)]: Not available

Vapor pressure: Not available

Relative vapour density(Air=1): Not available

Relative density (water = 1 g/mL): 1.1460±0.0100 (20°C)

Solubility: Not available

n-octanol/water partition coefficient: Not available

Auto-ignition temperature(°C): Product is not self-igniting

Decomposition temperature(°C): Not available

Kinematic Viscosity(mm²/s): 203.3±20.0 mPa·s (25°C)

Explosive properties: Product does not present an explosion hazard

Oxidising properties: Product does not present oxidizing properties

Particle characteristics: Not available

SECTION 10 - STABILITY & 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.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity of components

Not suitable for calculating toxicity.

Toxicity of the mixture

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

Acute toxicity

ATEmix (oral) : No data(Not classified)

ATEmix (dermal) : No data(Not classified)

ATEmix (inhalation) : No data(Not classified)

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

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:

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

Aspiration hazard:

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

11.2 Endocrine disrupting properties

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

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity:

According to Regulation (EC) No 1272/2008, this product does not meet the criteria of classification of environmental toxicity.

12.2 Persistence and degradability:

Data for the mixture are not available.

PROPYLENE GLYCOL	
OECD Guideline 301F	81% biodegradation
Biodegradation in soil	High concentrations of Propylene glycol released into a soil environment can be expected to biodegrade.
Phototransformation in water	T50 = 1.3 year
GLYCERINE	
Biodegradation in water	Readily biodegradable

12.3 Bioaccumulative potential:

Data for the mixture are not available.

PROPYLENE GLYCOL	
BCF	0.09
GLYCERIN	
Low Pow	-1.75 (pH=7.4, 25°C)

12.4 Mobility in soil:

Data for the mixture are not available.

PROPYLENE GLYCOL	
Koc	2.9 (calculated from log Pow = -1.07 using the equation from the GD (non-hydrophobics))
Henry's Law constant	0.06 atmm ³ /mol (12 °C)
GLYCERIN	
Henry's Law constant (H):	0 atmm ³ /mol

12.5 Results of PBT and vPvB assessment:

Product does not contain ingredients, which meet criteria for PB or VPVB

12.6 Other adverse effects:

The mixture is not classified as hazardous to the ozone layer.

The mixture does not contain endocrine disruptors in accordance with Regulations (EU) No 528/2012 and (EC) No 1107/2009.

SECTION 13 - 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, 94/62/EC.

SECTION 14 - TRANSPORT INFORMATION

14.1 UN number:

Not available. Mixture is not classified as hazardous during transport.

14.2 UN proper shipping name:

Not available.

14.3 Transport hazard class(es):

Not available.

14.4 Packing group:

Not available.

14.5 Packing group:

Not available.

14.6 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not available.

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, 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) (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.

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 air (COTIF): Appendix C – Regulations concerning the International Carriage of Dangerous Goods by air (I) with

effect from January 1, 2017. Technical Instructions for the Safe Transport of Dangerous Goods by Air: Order Number: Doc 9284, 2017-2018 Edition.

Regulation (EU) No 528/2012 of the European parliament and of the council of 22 May 2012 concerning the making available on the market and use of biocidal products (Text with EEA relevance)

Regulation (EC) No 1107/2009 of the European parliament and of the council of October 21, 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

SECTION 16 - OTHER INFORMATION

Full text if indicated H phrases mentioned in section 2-3:

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H300 Fatal if swallowed

H301 Toxic if swallowed

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H310 Fatal in contact with skin

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H330 Fatal if inhaled

H336 May cause drowsiness or dizziness

H372 Causes damage to lungs through prolonged or repeated inhalation exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

Clarifications of aberrations and acronyms:

Flam. Liq. 2: Flammable liquid, Category 2

Flam. Liq. 3: Flammable liquid, Category 3

Acute Tox. 2: Acute toxicity, Category 2

Acute Tox. 3: Acute toxicity, Category 3

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Acute 1: Hazardous to the aquatic environment, acute Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, chronic Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, chronic Category 2

Skin Irrit. 2: Skin corrosion/irritation, Category 2

Skin Corr. 1A: Skin corrosion/irritation, Category 1A

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Eye Dam. 1: Serious eye damage/eye irritation Category 1

STOT RE 1: Specific target organ toxicity-repeated exposure Category 1

STOT RE 3: Specific target organ toxicity-repeated exposure Category 3

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

ATEmix: Acute Toxicity Estimate of mixture

bw: body weight

GCL: Generic Concentration Limit

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard Category 2

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

LC50: Median Lethal concentration

LD50: Median Lethal dose

ATEmix: Acute Toxicity Estimate of mixture

bw: body weight

LoW: List of Wastes

Key literature references and sources for data:

This MSDS 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

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