

Liquid for electronic cigarettes
1.8% NICOTINE = 18 mg/ml

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1. Identification of the substance or mixture, and the company

1.1. Product identifier

Commercial name: Liquid for electronic cigarettes - 1.8% NICOTINE = 18mg/ml
 Available flavours: TOBACCO MAL REG TOBACCO ORIENTAL TOBACCO FRESH MINT
 LIQUIRITAS ULTRA TOBACCO COW BOY TOBACCO SWEET TOBACCO
 DARK RHUM

ISS code: VAPO-N18

1.2. Suitable and unsuitable uses of the substance or mixture

Consumer uses: Liquid for electronic cigarettes - with nicotine
 Unsuitable uses: All those not specifically identified on the label

1.3. Information regarding provider of safety data sheet

FUMADOR Srl
 Via Serbelloni, 1 - 20122 Milan
 Tel. +39 02 45 07 79 01
 Email of qualified personnel: info@fumador.it

1.4. Emergency telephone number

+39 02 45 07 79 01 (from 9am to 12pm and from 2pm to 5pm)
 Section 16 of this information sheet lists the telephone numbers of 24-hour poison centres in Italy.

2. Identification of hazards

2.1. Classification of substance or mixture

Classification according to Regulation (EC) no. 1272/2008
 Pictograms: GHS06
 Hazard class and category codes: Acute Tox. 3
 Hazard statement codes: H311 - toxic in contact with skin
Classification according to Directive 1999/45/EEC
 Classification: T; R24
 Nature of specific risks attributed: R24 - toxic in contact with skin
 The product is toxic: avoid contact with the skin.

2.2. Labelling elements

Labelling in accordance with Regulation (EC) no. 1272/2008

Pictograms: GHS06
 Signal word codes: danger
 Hazard statement codes: H311 - toxic in contact with skin
 Precautionary statements: **Prevention**
 P280 - Wear protective gloves/protective clothing/eye protection/face protection



Reaction

P302+P352 - In the event of contact with skin, wash with soap and water.
 P312 - In the event of the victim feeling unwell, immediately call a POISON CENTRE or a doctor.
 P322 - Specific measures (see this label/information sheet inside or on packaging).
 P361 - Immediately remove all contaminated clothing.
 P363 - Wash contaminated clothing before reuse.

Conservation

P405+P101 - Store locked up and keep out of reach of children

Disposal

P501 - Dispose of the product and container in compliance with national regulations.
 The product contains 1.8% nicotine = 18mg/ml

2.3. Other hazards

No other data available. The mixture DOES NOT contain PBT/vPvB substances in accordance with Regulation (CE) 1907/2006, annex XIII

3. Composition/information on ingredients

3.1. Composition/information on ingredients

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Nicotine (ISO)	1.8%	T+; R27 T; R25 N; R51/53 Acute Tox. 3, H301; Acute Tox. 1, H310; Aquatic Chronic 2, H411	614-001-00-4	54-11-5	200-193-3	---
Glycerine	>30 < 50%	Not classified as dangerous by current legislation	---	56-81-5	---	01-2119471987-18
Propylene glycol	>30 < 50%	Not classified as dangerous by current legislation	---	57-55-6	---	01-2119456809-23
Natural flavouring for use in foodstuffs	>1 < 5%	Not classified as dangerous by current legislation	---	---	---	---

4. First aid measures

4.1. Description of first aid measures

Inhalation: Ventilate the room. Remove victim from the affected area and keep at rest in a ventilated environment. CALL A DOCTOR
Direct skin contact (with undiluted product): Remove contaminated clothing. Wash the affected skin areas with plenty of water, even if contact is only suspected. Do not use neutralising substances or ointments for the first 24 hours, unless instructed to do so by a doctor. SEEK IMMEDIATE MEDICAL ATTENTION.

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Direct eye contact (with undiluted product): Flush immediately with plenty of running water for at least 15 minutes, keeping the eyelids open. Protect the eyes with dry sterile gauze and SEEK IMMEDIATE SPECIALIST MEDICAL ATTENTION. Do not use eye-drops or ointment of any kind unless instructed to do so by a doctor.

Ingestion:SEEK IMMEDIATE MEDICAL ATTENTION. Do not provoke vomiting or give anything at all without supervision by health personnel. Keep the victim at rest in a ventilated room.

4.2. Principal symptoms and effects, both acute and delayed

No data available

4.3. Indication of whether professional assistance by a doctor and special treatment should be sought immediately

See heading 4.1. Description of first aid measures.

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media: Water mist, CO2, foam, chemical powders, depending on the materials involved in the fire

Extinguishing media to be avoided: None

5.2. Special exposure hazards deriving from the substance or mixture:

Potentially harmful fumes can develop during combustion

5.3. Recommendations for fire-fighters

Use special clothing to protect the respiratory system, eyes and skin. Water mist can be used to disperse fumes and protect the people fighting the fire. The use of self-contained breathing apparatus is also recommended, especially if operating in closed, poorly-ventilated spaces, and whenever using Halon extinguishers. Always wear the protective gear specific to the fire-fighting squad.

6. Accidental release measures

6.1. Personal precautions, protective devices, and emergency procedures

For those not involved in taking action:

Move away from the area around the spillage or release. Do not smoke.

For those taking direct action:

General information: use suitable individual protective equipment, as described in Section 8.

Personal precautions:

Trained and suitably protected staff can carry out cleaning up operations. Any contaminated clothing must be immersed in water while waiting to be washed.

6.2. Environmental precautions

Contain spillages with earth or sand, and prevent them from flowing into surface watercourses or drains. In the event of large-scale release into a watercourse or the soil, inform the relevant authorities.

6.3. Methods and materials for containment and clearing up

Collect the product to be eliminated and remove by using absorbent material. After removal, wash the affected area and materials with plenty of water and remove this water afterwards.

6.4. Reference to other sections

Refer to sections 8 and 13 for further information

7. Handling and Storage

7.1. Precautions for safe handling

Do not smoke, eat or drink while handling. Use suitable personal protective equipment (see section 8).

7.2. Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, well-ventilated place away from heat sources.

7.3. Specific uses - No data available.

8. Exposure controls/personal protection

8.1. Control parameters

Regarding the substances contained

Substance	TLV/TWA	TLV/STEEL	Note	Critical Effects	Source
Nicotine	0.5mg/m ³	Not available	Skin	sscvc, gstr, ssnc	ACGIH/2012
Note	Skin: risk of absorption through skin				
Critical effects:	sscvc: cardiovascular system		gstr: gastrointestinal	ssnc: central nervous system	

8.2. Exposure controls

Personal protection measures

a) Eye/face protection - Use safety glasses with side protection in accordance with EN-166

b) Skin protection

Hand protection - The use of waterproof protective gloves (made from neoprene or natural rubber) is recommended, in accordance with EN374-1, -2 and -3. Use gloves with an adequate permeation rate in relation to the duration of dermal exposure.

Before and after use of gloves, wash hands thoroughly with soap and water. If gloves are not disposable, check that they are fully intact before reuse. When removing gloves, make sure the outside surface does not come into contact with the skin.

Other - Avoid direct contact with the skin by using suitable protective clothing

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c) Respiratory protection

Work in places equipped with respirators and normal ventilation conditions. In the event of prolonged use in confined areas, or in the case of concentration levels close to TVL, use protective respiratory devices in accordance with UNI EN 529:2006 (Respiratory protective devices - recommendations for selection, use, care and maintenance - guidance document), establishing the adequate APF, "assigned protection factor".

d) Thermal hazards

Avoid exposure to naked flames. Control of environmental exposure. Avoid the release of the product into the environment.

9. Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical and chemical properties	Value
Appearance	Liquid
Odour	Characteristic
Odour threshold	Not established
PH at 20°C	7.0 ± 0.2
Melting point/freezing point	Not established
Boiling point/boiling range	>180°C / 295°C
Flash point (closed cup)	>100°C
Evaporation rate	Not established
Flammability (solid, gas)	Not applicable
Upper/lower limit of flammability or explosivity	Not established
Vapour pressure	Not established
Vapour density	Not established
Relative density	1.150 ± 0.005
Solubility	Soluble in polar solvents
Solubility in water	Soluble
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition temperature	Not established
Viscosity	Not established
Explosive properties	Not established
Oxidising properties	Not established

9.2. Other information No data available.

10. Stability and reactivity

10.1. Reactivity

There is no risk of reactivity under normal conditions of use and following the recommended instructions.

10.2. Chemical stability

Stable in normal storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions occur when used according to the instructions on the label.

10.4. Conditions to avoid

Do not mix with other chemical products in general.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

The product does not decompose in normal conditions of use.

11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral	=	5,555.6	mg/kg
ATE(mix) dermal	=	277.8	mg/kg
ATE(mix) inhal	=	0.0	mg/1/4 h

a. Acute toxicity:	toxic product: avoid skin contact
b. Skin corrosion/irritation:	not applicable
c. Serious eye damage/eye irritation:	not applicable
d. Respiratory or skin sensitisation:	not applicable
e. Germ cell mutagenicity:	not applicable
f. Carcinogenicity:	not applicable
g. Reproductive toxicity:	not applicable
h. Specific target organ toxicity (STOT) single exposure:	not applicable
i. Specific target organ toxicity (STOT) repeated exposure:	not applicable
j. Aspiration hazard:	not applicable

Regarding substances contained: NICOTINE (ISO)

ROUTES OF EXPOSURE. The substance can be absorbed into the organism by inhalation, skin contact, and ingestion.

INHALATION RISKS. Harmful contamination of the air may occur rapidly due to evaporation of the substance at 20°C.

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EFFECTS FROM SHORT TERM EXPOSURE. The substance causes irritation to the eyes and skin. The substance can affect the cardiovascular and central nervous systems, causing convulsions and respiratory alterations. Exposure that greatly exceeds OEL can lead to death. Effects can be delayed. Medical observation is recommended.

EFFECTS FROM REPEATED OR LONG TERM EXPOSURE. Tests on animals suggest that this substance may cause reproductive and developmental toxicity in humans.

ACUTE RISKS/SYMPTOMS.

INHALATION and INGESTION. Burning sensation, nausea, vomiting, convulsions, abdominal pain, diarrhea, headache, sweating, weakness, dizziness, confusion.

ABSORPTION BY SKIN CONTACT. Redness, burning sensation, nausea, vomiting, convulsions, abdominal pain, diarrhea, headache, sweating, weakness, dizziness, confusion.

EYES. Pain. Redness.

12. Ecological information

12.1. Toxicity

Data regarding mixture not available. Propylene glycol: LC50 (fish) > 5500 mg/l

12.2. Persistence and degradability

Data regarding mixture not available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste handling methods

Do not re-use empty containers. Dispose of them according to current legislation. Any residues can be burned in a suitable incinerator equipped with post-combustion and catalytic reduction.

14. Transport information

14.1. UN Number - 1654

Possible ADR exemption if the following characteristics are satisfied:

Mixed packaging: inner packaging 100 ml, package 30kg

Inner packaging packed in shrink-wrapped trays: inner packaging 100 ml, package 20kg.



14.2. UN shipping name

NICOTINE in solution

14.3. Hazard classes for transport

Class: 6.1
 Labelling: 6.1
 Tunnel restriction code: D/E
 Limited quantities: 100 ml
 EMS: F-A, S-A



14.4. Packing group - II

14.5. Environmental hazards

Dangerous to the environment: YES (apply the symbol shown)
 Marine pollutant: NO



14.6. Special precautions for users

If carriage does not come under one of the exemptions, this must be made by vehicles authorised for the transport of dangerous goods, in accordance with the current edition of the ADR agreement and any relevant national legislation. Carriage must be made in the original packaging and, in any case, in packaging made from material resistant to the contents and not susceptible to creating a dangerous reaction with them. Workers dealing with the loading and unloading of the goods must be properly informed about the hazards of the preparation and about appropriate action in the event of an emergency.

14.7. Bulk transport in accordance with annex II of MARPOL 73/78 and IBC code

Bulk transport does not apply.

15. Regulatory information

15.1. Health, safety and environmental legislation specific to the substance or mixture

Italian government law decree no. 52 of 03/02/1997

(Implementation of Council Directive 92/32/EEC concerning the classification, packaging and labelling of dangerous substances).

Italian government law decree no. 65 of 14/03/2003

(Implementation of Council Directive 1999/45/EC and 2001/60/EC concerning the classification, packaging and labelling of dangerous preparations).

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Italian government law decree no. 25 of 02/02/2002

(Implementation of Council Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemical agents at work).

Italian Ministerial Decree of 26/02/2004

(Definition of an initial list of limit values indicating occupational exposure to chemical agents).

Italian Ministerial Decree of 03/04/2007

(Implementation of Commission Directive 2006/8/EC of 23/01/2006 amending, for the purposes of their adaptation to technical progress, Annexes II, III and V to Directive 1999/45/EC of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations).

Regulation (EC) no. 1907/2006 of 18/12/2006 of the European Parliament and of the Council

Concerning the registration, evaluation, authorisation 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 16/12/2008 of the European Parliament and of the Council

On classification, labelling and packaging of substances and mixtures, amending and repealing

Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Regulation (EC) no. 790/2009 of 10/08/2009 of the Commission

amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC)

No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Italian Ministry of Health Memorandum 0006710-P-11/02/2010

Order of the Italian Ministry of Health of 28/09/2012

15.2. Chemical safety assessment

Chemical safety assessment not required

16. Other information**16.1. Other information**

Description of risk phrases used in section 3:

R25 = toxic if swallowed

R27 = very toxic in contact with skin

R51 = toxic to aquatic organisms

R53 = may cause long-term adverse effects in the aquatic environment

Description of hazard statements used in section 3:

H301 = toxic if swallowed

H310 = fatal in contact with skin

H411 = toxic to aquatic life with long-lasting effects

If necessary, contact one of these 24 hour poison centres:

BOLOGNA: Centro Antiveleni Ospedale Maggiore - tel. 0510 333333

CATANIA: Centro di Rianimazione Ospedale Garibaldi - tel. 095 7594120

CESENA: Centro Antiveleni Ospedale Maurizio Sufalini - tel. 0547 352612

CHIETI: Centro Antiveleni Ospedale SS. Annunziata - tel. 0871 345362

FLORENCE: Servizio Autonomo di Tossicologia Università degli Studi - tel. 055 4277238

GENOA: Centro Antiveleni Ospedale San Martino - tel. 010 352808

GENOA: Servizio Antiveleni Istituto Scientifico 'O. Gaslini' - tel. 010 56361 / 00103760603

LA SPEZIA: Ospedale Civile Sant'Andrea - tel. 0487 533296

LECCE: Centro Antiveleni Ospedale Vito Pazzi - tel. 0832 665374

MILAN: Centro Antiveleni Ospedale Niguarda - tel. 0266101029

NAPLES: Centro Antiveleni Ospedale Cardarelli - tel. 081 7472870

PAVIA: Clinica del Lavoro e della Riabilitazione IRCCS - tel. 0382 24444

REGGIO CALABRIA: Centro Antiveleni Ospedali Riuniti - tel. 0965 811624

ROME: Centro Antiveleni Policlinico Gemelli - tel. 06 3054343

ROME: Centro Antiveleni Policlinico Umberto 1° - tel. 06 490863

TURIN: Centro Antiveleni Istituto Anestesia e Rianimazione - tel. 011 6637637

PRINCIPAL BIBLIOGRAPHICAL SOURCES

ACGIH - American Conference of Governmental Industrial Hygienists

ECB - European Chemicals Bureau

IARC - International Agency for Research on Cancer

IPCS - International Programme on Chemical Safety (Cards)

NIOSH - Registry of toxic effects of chemical substances (1983)

OSHA - European Agency for Safety and Health at Work

PHATOX - Pharmacological and Toxicological Data and Information Network

Safety Data Sheet in accordance with Regulation (EC) no. 453/2010 of 20/05/2010 and subsequent amendments

Revised paragraphs are indicated by highlighted text.

This Safety Data Sheet cancels and replaces all previous versions.

The information provided on this Safety Data Sheet has been obtained from the best available sources and to our best knowledge at the time of revision. Neither the company nor any of its subsidiaries shall accept complaints deriving from the improper use of the information contained herein or from the improper use of the product. Special attention should be given to the use of the preparations, as improper use may increase their dangerousness.