Liqua 0 mg/ml

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| SECTION 1 | l: Identification of t | he substance/mixt | ure and of the com | pany/undertaking | | |
|--------------------|--|--|--|---------------------------------------|-----------------|--|
| 1.1. | Product identifier | | | | | |
| | Trade name | | Liqua 0 mg/n | l | | |
| | Other names | | Liqua | | | |
| 1.2. | Relevant identified uses | of the substance of | or mixture and uses | advised agains | | |
| | Refill for electronic cigare | ttes. | | | | |
| 1.3. | Details of the supplier o | f the safety data sł | neet | | | |
| | Supplier | | Ritchy | EU s.r.o. | | |
| | Address | | | ova 141/18, Praha Republic | | |
| | Telephone number | | 225067 | 1 | | |
| | Competent person respo | onsible for the safe | ty data sheet | | | |
| | GRACILIS s.r.o., info@gra | cilis.cz | | | | |
| 1.4. | Emergency telephone n | umber | | | | |
| | Toxicological Information | Centre Prague (TIS), | Address: Na Bojišti | 1, 128 08 Praha 2 | | |
| | Telephone number: +420 | 224 919 293 or +420 | 224 915 402 or +42 | 20 224 914 575 - non stop | | |
| SECTION 2 | 2: Hazards identifica | ation | | | | |
| 2.1. | Classification of the sub | stance or mixture | | | | |
| | Classification according to Directive 67/548/EEC or Directive 1999/45/ESC | | | | | |
| | The mixture is not classifie | ed as dangerous. | | | | |
| | Classification according | to Regulation EC | No 1272/2008 | | | |
| | The mixture is not classified as dangerous. | | | | | |
| | The most important adverse physicochemical, human health and environmental effects | | | | | |
| | not known | | | | | |
| 2.2. | Label elements | | | | | |
| | Labelling according to Regulation EC No 1272/2008 | | | | | |
| | - | | | | | |
| | H-statements | | | | | |
| | - | | | | | |
| | P-statements | | | | | |
| | - | | | | | |
| 2.3. Other hazards | | | | | | |
| | undefined | | | | | |
| SECTION 3 | 3: Composition/info | rmation on ingredi | ents | | | |
| 3.2. | Mixtures | ŭ | | | | |
| Name of age | | Index number EC (EINECS) CAS Registration number | Classification according to 67/548/EEC | Classification according to 1272/2008 | Concentration % | |

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| propane-1,2-diol | - 200-338-0 57-55-6 - | | 78.1 |
|------------------|--------------------------------|--|------|
| glycerol | - 200-289-5 56-81-5 - | | 21 |

For R-phrases and H-statements in full: see heading 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Depending on the situation get medical attention.

After skin contact

Take of all contaminated clothes immediately with lots of water with soap. In case of problems seek medical attention.

After eye contact

Remove any contact lenses. Immediately flush eyes with plenty of water for 20 minutes, occasionally lift the upper and lower eyelids. Do not apply neutralizing agents. Get medical attention.

After ingestion

Place a victim calm. Rinse the mouth with water and give victim drink glass of water. Do not induce vomiting. Get medical attention immediately and show this label.

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

After inhalation

None.

After skin contact

None.

After eye contact

None.

After ingestion

None.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell or if symptoms persist, seek medical attention. If unconsciouness takes in recovery position. NEVER induce swallowing by an unconscious person.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

water spray, dry powder, carbon dioxide, alcohol resistant foam

Unsuitable extinguishing media

undefined

5.2. Special hazards arising from the substance or mixture

Fire produce dense black smoke and carbon monoxide and carbon dioxide. Při požáru vzniká hustý, černý kouř, může docházet ke vzniku oxidu uhelnatého a uhličitého.

5.3. Advice for firefighters

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Self contained breathing apparatus and full protective clothing must be worn in case of fire. Closed containers exposed to fire should be cooled with water. Do not allow run-off from fire-fighting to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid any contact with the skin and eyes. Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of large seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Stop leaking if possible without risk. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, soil, vermiculite or diatomaceous soil, and place in container for disposal according to local regulations (see section 13). Clean contaminated surfaces with an excess of water; avoid use of solvents.

6.4. Reference to other sections

7., 8. a 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not get in eyes or on skin or clothing. Put on appropriate personal protective equipment (see Section 8). Keep strict hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

See information supplied by the manufacturer for the identified use(s).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

The usual precautionary measures are to be adhered to when handling chemicals. Provide adequate ventilation. Use exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If cannot be met OEL must be used appropriate respiratory protection must be used. Do not eat, drink or smoke. After work and before breaks wash your hands thoroughly with soap and water. Keep strict hygiene.

Respiratory protection

Wear gas mask with filter type A if there is not adequate ventilation.

Skin protection

Wash contaminated skin.

Eye/face protection

It is not necessary.

Thermal hazards

undefined

Environmental exposure controls

Keep the usual measures for environmental protection, See Section 6.2.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

| Physical state | liquid at 20°C |
|--|-------------------|
| Colour | No data available |
| Odour | No data available |
| Odour threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability | No data available |
| Flammability limits | No data available |
| Explosive limits | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | No data available |
| Solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Other information | |

9.2. Other information undefined

SECTION 10: Stability and reactivity 10.1. Reactivity Unknown. 10.2. **Chemical stability** Mixture is stable under normal conditions. 10.3. Possibility of hazardous reactions Mixture is stable under normal conditions. 10.4. **Conditions to avoid** Mixture is stable under normal conditions. 10.5. **Incompatible materials** Strong strong acids, bases, strong oxidizing agents. 10.6. Hazardous decomposition products Under normal conditions no dangerous decomposition products known. In case of fire or heat operation, hazardous

decomposition products can be released, such as: carbon monoxide, carbon dioxide.

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| SECTION | N 11: Toxicological information | | | | |
|---------|--|---|--|--|--|
| 11.1. | Information on toxicological effects | | | | |
| | Acute toxicity | | | | |
| | Toxický při styku s kůží. | | | | |
| | Acute toxicity of substances | | | | |
| | propane-1,2-diol (CAS: 57-55-6, EC:200-3 | 38-0) | | | |
| | LD50, Oral, Rat | 20000 mg.kg ⁻¹ | | | |
| | LD50, Dermal, Rabbit | 20800 mg.kg ⁻¹ | | | |
| | glycerol (CAS: 56-81-5, EC:200-289-5) | | | | |
| | LD50, Oral, Rat | 12600 mg.kg ⁻¹ | | | |
| | LD50, Dermal, Rabbit | > 10000 mg.kg ^{.1} | | | |
| | Irritation | | | | |
| | Based on the available data does not meet the criteria for classification. | | | | |
| | Corrosivity | | | | |
| | Based on the available data does not meet the criteria for classification. | | | | |
| | Sensitisation | | | | |
| | Based on the available data does not mee | t the criteria for classification. | | | |
| | Repeated dose toxicity | | | | |
| | Based on the available data does not mee | t the criteria for classification. | | | |
| | Carcinogenicity | | | | |
| | Based on the available data does not mee | t the criteria for classification. | | | |
| | Mutagenicity | | | | |
| | Based on the available data does not meet the criteria for classification. | | | | |
| | Reproductive toxicity | | | | |
| | Based on the available data does not meet the criteria for classification. | | | | |
| SECTION | N 12: Ecological information | | | | |
| 12.1. | Toxicity | | | | |
| | There are no ecotoxicological data available on this mixture. Do not allow product to penetrate and getting into sewage system and watercourses. | | | | |
| | Toxicity of substances | | | | |
| | propane-1,2-diol (CAS: 57-55-6, EC:200-3 | 38-0) | | | |
| | LC50, 96 h, Fishes | 52930 mg.l ⁻¹ | | | |
| | EC50, 48 h, Daphnia | > 10000 mg.l ^{.1} | | | |
| | glycerol (CAS: 56-81-5, EC:200-289-5) | | | | |
| | LC50, Fishes | > 5000 mg.kg ⁻¹ (test: Carassius auratus (goldfish)) | | | |
| | EC50, Daphnia | > 2900 mg.kg ⁻¹ | | | |
| 12.2. | Persistence and degradability | | | | |

Propane-1 ,2-diol is readily biodegradable.

12.3. Bioaccumulative potential

No data available

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The mixture contains no PBT a vPvB substances.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recycle or dispose of waste in compliance with local and/or national regulations, preferably via a certified collector or company. Product residues and uncleaned empty containers should be disposed like hazardous waste. Do not allow to enter drains or watercourses. Empty waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Legislation on wastes

Directive 2008/98/EC, decision 2001/118/EC.

SECTION 14: Transport information

14.1. UN number The product is not covered by ADR. 14.2. UN proper shipping name undefined 14.3. Transport hazard class(es) undefined 14.4. **Packing group** undefined 14.5. **Environmental hazards** NO 14.6. Special precautions for user undefined 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

undefined

SECTION 15: Regulatory information

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

Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation of Chemicals, 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 Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 of 16 December 2008 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. Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances. Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous substances. Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the Member States relating to aerosol dispensers. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

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15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Changes in the safety data sheet

first edition

Legend to abbreviations and acronyms

| CAS | Unique identifier of chemical substances |
|-------------|---|
| EC (EINECS) | European Inventory of Existing Commercial Chemical Substances |
| PBT | Persistent, bioaccumulative and toxic |
| vPvB | Very persistent and very bioaccumulative |

Key literature references and sources for data

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication.

List of R phrases, hazard statements, safety phrases and/or precautionary statements used in safety data sheet

Guidelines for training

Introduce the recommended use, compulsory safety equipment, first aid and forbidden handling to your staff. The product may not be use for any purpose other than stated in the Material Safety Data Sheet (point 1.2.). User is responsible for compliance with all relevant legislation to protect health and the environment. The product should not be without the approval of the producer / importer is used for purposes other than stated in Chapter 1. User is responsible for compliance with all relevant legislation to protect health.

Disclaimer:

The MSDS contains information on safety and health protection at work and environmental protection. These data correspond to the current state of knowledge and experience and are in compliance with applicable laws and regulations. Supplier is not responsible for any damage that may be caused by improper use of the mixture. Any modifications to the safety data sheet without the consent of the competent person are prohibited.