

[In accordance with the criteria of Regulation No 1907/2006 (REACH) with further changes]

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier.

Trade name: CHEMNOVATIC FLAVOUR Lemon

Description: Solution of 1,2-propanediol with flavours.

UFI: KXR3-A01G-600V-SPJH

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

Relevant identified uses: Manufacture of mixtures

Uses advised against: not determined

### 1.3. Details of the supplier of the safety data sheet.

Supplier: CHEMNOVATIC Sp. z o.o. Sp. k.

Address: Ludwika Spiessa 9, 20-270 Lublin, POLAND

Phone: +48 814754442

E-mail address of the person responsible for the information card: office@chemnovatic.com

### 1.4. Emergency telephone number.

112 (general emergency phone number)

## Section 2: Hazards Identification

### 2.1. Classification of the substance or mixture.

Classification according to 1272/2008/EC

Flam. Liq. 3 – Flammable liquid, category 3; H226

Skin Sens. 1 - Skin Sensitization, category 1; H317

Eye Irrit. 2 – Eye irritation, category 2; H319

Aquatic Chronic Toxicity, category 3; H412

### 2.2. Label elements

Classification according to 1272/2008/EC

**Hazard symbols and signal words**



**WARNING**

**Hazard statements**

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P233 Keep container tightly closed.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: wash with plenty of water.



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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container to container for waste.

## 2.3. Other hazards

This mixture does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. Product does not have endocrine disrupting properties. No other hazards to determine. This mixture does not contain "Substances of Very High Concern" on the list published by the European Chemicals Agency (ECHA) pursuant to Art. 57 of the REACH regulation.

## Section 3: Composition/Information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

No.	Chemical name	Percentage	CAS	EC (EINECS)	Index No./ REACH Registration No.	Classification according to 1272/2008/EC
1.	Propylene glycol	54,03 %	57-55-6	200-338-0	none/ 01-2119456809-23-XXXX	Not classified
2.	Ethanol	28,87 %	64-17-5	200-578-6	603-002-00-5/ not applicable	Flam. Liq. 2, H225; Eye Irrit. 2, H319
3.	D-limonene	1,15 %	5989-27-5	227-813-5	none/not applicable	Flam. Liq. 3, H226; Skin Sens. 1, H317; Skin Irrit. 2, H315, Aquatic Acute 1 H400, M=1; Aquatic Chronic 1 H410, M=1
4.	Citral	0,67 %	5392-40-5	226-394-6	none/not applicable	Skin Sens. 1, H317 Skin Irrit. 2, H315

Full text of H - phrases in section 16.

## Section 4: First aid measures

### 4.1. Description of first aid measures.

Skin contact: Wash out skin with plenty of water with soap. if necessary consult a doctor.

Eye contact: wash out with plenty of water with the eyelid hold wide open, for at least 15 min. Remove any contact lenses. Avoid strong stream of water: risk of cornea damage. Seek medical advice if necessary.

Ingestion: in case of accidental ingestion rinse mouth with water. Do not induce vomiting. Consult a doctor - show the container or label.

Inhalation: remove to fresh air. Consult a doctor, if symptoms persist.

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

Symptoms may be delayed after skin contact:

- If possible, remove person to fresh air (in case of inhalation).
- It is recommended to remove shoes and clothes.
- In case of unconsciousness, apply mechanical ventilation.
- The first-aider should wear protective gloves and clothing as per section 8.



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**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.

## Section 5: Firefighting measures

**5.1. Extinguishing media.**

Suitable extinguishing media: Powder, carbon dioxide, foam, water spray. Use dispersed water to protect fire-exposed containers.

Unsuitable extinguishing media: water jet.

**5.2. Special hazards arising from substance or mixture.**

Fire may produce dense black smoke containing carbon monoxide. Combustion products can be hazardous and pose a health risk. Use respiratory protection.

**5.3. Advice for firefighters.**

Do not allow extinguishing agent to enter drainage ditches, sewers, basements and trenches. If it is possible without endangering life or health of rescuers - containers containing the product should be removed from the area at risk of fire.

Note: do not remove tanks exposed to fire or high temperature, cool them with water from a safe distance to avoid pressure build-up, spontaneous ignition or explosion.

Special protective equipment for firefighters: coveralls, eye and face protection equipment and breathing apparatus.

## Section 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures.**

Recommendations related to accidental leakage or release of the mixture:

- Put on appropriate personal protective equipment as described in section 8. Suitable material for the protective clothing - polypropylene, polyethylene. Unsuitable material - elan wool, cotton.
- Remove all sources of ignition; disconnect from the power supply any devices near the leak; do not smoke tobacco.
- Do not inhale vapors or spray.
- Provide adequate ventilation, as specified in each particular workplace.

**6.2. Environmental precautions.**

Do not allow the product to reach the sewage system, surface waters, groundwater and soil, cellars/pits.

**6.3. Methods and material for containment and cleaning up.**

- Cover the released mixture with non-flammable material absorbing liquids (eg. sand, earth or sorbent) and collect mechanically (with a shovel) to marked waste containers.
- In order to limit leakage, use absorbent hoses/sleeves/mats or cover the spill with a sand/sorbent shaft.
- Use special magnetic plates to protect the sewage openings.
- In the event of a significant leak, notify the Fire Brigade (p. 112), the nearest local authorities, and, if necessary, the nearest Chemical Rescue Unit.

**6.4. References to other sections.**

- Always use personal protection in accordance with the guidelines given in section 8.
- Collect the collected liquid - together with contaminated sorbents, sand and other equipment used to clean up the spill - dispose of in accordance with the recommendations given in section 13.



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## Section 7: Handling and storage

### 7.1. Precautions for safe handling.

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not inhale vapours. Ensure adequate ventilation. Before break and after work wash carefully hands. Keep not used containers tightly closed. Do not allow the product to get into mouth and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities.

Keep containers tightly closed in cool, dry and well-ventilated area. Keep away from food, beverages or feed for animals. After opening seal the container and store in an upright position to prevent leakage. Keep away from strong oxidizing agents, concentrated acids and bases. Prevent access by unauthorized persons. Avoid heat and ignition sources. Keep away from direct sunlight. Tightly seal unused container. Store at 10-25 °C.

### 7.3. Specific end use(s).

No information about the applications other than those listed in subsection 1.2.

## Section 8: Exposure control/personal protection

### 8.1. Control parameters.

Please check any national occupational exposure limit values in your country for substance contained in this product.

Specification	STEL 15 min	TWA 8 hour
propylene glycol [CAS 57-55-6]	-	10 mg/m <sup>3</sup>

### 8.2. Exposure controls.

Use the product in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation. When handlings do not eat, drink or smoke. Before break and after work carefully wash hands. In the vicinity of the work should be installed safety showers and separate washer eyewash. At the exit of the room in which you are working with toxic materials should be at least one sink with brought to the warm water - for every twenty employees.

#### Hand and body protection

Wear the protective gloves (long-term exposure - butyl rubber, thickness: 0,3 mm, penetration time: >480 min., short-term exposure: nitrile rubber, thickness: 0,4 mm, penetration time: >30 min.) and protective clothing.

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. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

#### Eye/face protection

Wear tight safety glasses when there is a danger of possible eye contamination (EN166).

#### Respiratory protection

In case of normal and as intended use, no respirator is needed. If exposure limits are exceeded, apply face mask with appropriate organic vapour cartridge (EN 143) filter P2.

#### Environmental exposure controls

Do not allow the mixture to contaminate surface water/ground water.



## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties.

a) physical state:

liquid



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b) colour:	colourless
c) odour:	characteristic
d) melting point/freezing point:	no data available
e) boiling point or initial boiling point and boiling range:	> 35 °C
f) flammability:	no data available
g) lower and upper explosion limit:	17,4 %/2,4 % (for propylene glycol)
h) flash point:	> 60 °C
i) auto-ignition temperature:	not applicable
j) decomposition temperature:	not applicable
k) pH:	no data available
l) kinematic viscosity:	no data available
m) solubility:	soluble in water
n) partition coefficient n-octanol/water (log value):	no data available
o) vapour pressure:	20 Pa (for propylene glycol)
p) density and/or relative density:	0,963 (20 °C)
q) relative vapour density:	no data available
r) particle characteristics:	no data available

## 9.2. Other information.

No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity.

Data on the mixture not available - the product has not been analyzed. Ingredient data are not available.

### 10.2. Chemical stability.

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions.

No other data available.

### 10.4. Conditions to avoid.

No other data available.

### 10.5. Incompatible materials.

No other data available.

### 10.6. Hazardous decomposition products.

No other data available.

## Section 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008.

#### a) Acute toxicity

ATEmix (skin): >2000 mg/kg (No classification)

ATEmix (oral): >2000 mg/kg (No classification)

ATEmix (inhalation): >5 (mg/l) (No classification)

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

#### b) Skin corrosion/irritation

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



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c) Serious eye damage/irritation

Causes serious eye irritation.

d) Respiratory or skin sensitization

May cause an allergic skin reaction.

e) Germ cell mutagenicity

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

f) Carcinogenicity

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

g) Reproductive toxicity

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

h) STOT-single exposure

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

i) STOT-repeated exposure

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

j) Aspiration hazard

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

**11.2. Information on other hazards.**

No data available.

## Section 12: Ecological Information

**12.1. Toxicity.**

Content of the toxic component after using the calculation method is above the limit level. Aquatic Chronic Toxicity, category 3: H412 Harmful to aquatic life with long lasting effects.

**12.2. Persistence and degradability.**

Propylene glycol: 81% after 28 days of the OECD 301F test

96% after 64 days of the OECD 301F test

Biodegradation may proceed slowly in anaerobic conditions

Biodegradation in water - screening tests: Readily biodegradable (100 %)

**12.3. Bioaccumulative potential.**

For mixture – no data available

Propylene Glycol:

Possibility of bioconcentration is low (BCF <100 or log Pow <3) breakdown factor, n-octanol/water (log Pow): -1.07 @ 20.5 °C and pH 6.2 - 6.4 method EU A.8 Bioconcentration factor: 0,09.

Bioaccumulation potential: No bioaccumulation potential

**12.4. Mobility in soil.**

Product mobile in soil and in water. Mobility of components in the mixture depends on the hydrophilic and hydrophobic properties and conditions of biotic and abiotic soil, including its structure, climatic conditions, seasons and soil organisms.

**12.5. Results of PBT and vPvB assessment.**

This mixture does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

**12.6. Endocrine disrupting properties.**

Product does not have endocrine disrupting properties.

**12.7. Other adverse effects.**

This product has no influence on the global warming or the ozone layer depletion. Consider other harmful effects of the individual components of the mixture on the environment (eg impact on the growth of global warming).

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## Section 13: Disposal considerations

### 13.1. Waste treatment methods.

Disposal methods for the product: disposal in accordance with the local legislation. Store remaining in original containers. Do not empty into drains.

Disposal methods for used packing: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation. Do not dispose empty packing with regular household waste. Do not mix with other waste.

## Section 14: Transport Information

### 14.1 UN number or ID number

Not applicable.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

The mixture is not classified as dangerous for the environment.

### 14.5 Special precautions for user

Use protective measures according to section 8.

### 14.6 Special precautions for user

Not applicable.

### 14.7 Maritime transport in bulk according to IMO instrments

Not applicable.

## 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, 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 (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).

### 15.2. Chemical safety assessment.

Chemical safety assessment was not performed for this mixture.



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## Section 16: Other Information.

### a) revised safety data sheet- changes

First version.

### b) legend to abbreviations and acronyms used in the safety data sheet

TWA	Time Weighted Average
PEL	Permissible exposure limit
TLV-C	Threshold limit value- Ceiling Limit
STEL	Short-term exposure limit
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
CAS	Chemical Abstract Service
EC No.	is a unique seven-digit identifier that is assigned to chemical substances for regulatory purposes within the European Union by the regulatory authorities.
LD50	lethal dose, the point where 50% of test subjects exposed would die
LC50	lethal concentration, the point where 50% of test subjects exposed would die
EC50	half maximal effective concentration
UN number	is four-digit number that identify hazardous substances
ATEmix	Acute Toxicity Estimates for mixture
PEB	permitted exposure for a biological material

### c) list of relevant H phrases, hazard statements, safety phrases and/or precautionary statements- full text

Flam. Liq. 2, H225 - Highly Flammable liquid and vapor.

Flam. Liq. 3, H226 - Flammable liquid and vapor.

Skin Irrit. 2, H315 - Causes skin irritation.

Skin Sens. 1, H317 - May cause an allergic skin reaction.

Eye Irrit. 2, H319 - Causes serious eye irritation.

Aquatic Acute 1 H400 - Very toxic to aquatic life.

Aquatic Chronic 1 H410 - Very toxic to aquatic life with long lasting effects.

### d) trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

### e) other data

Classification was made on the basis of data on hazardous substances calculation method based on the guidelines of Regulation 1272/2008/EC (CLP).

The above information is prepared on the basis of current state of knowledge and relates to the product in the form in which it is used. Data relating to the product are presented in order to include safety requirements, and not to guarantee their particular properties.

In the event when conditions of application of the product are beyond control of the manufacturer, responsibility for safe use of the product is borne by the user.

The Employer is obligated to inform all employees who have contact with the product, about hazards and personal protection equipment specified in this material safety data sheet.

This material safety data sheet has been prepared on the basis of MSDS provided by the manufacturer and/or web databases and the binding regulations regarding hazardous substances and chemical agents.

The product is classified as hazardous. EXPOSURE SCENARIOS are not required.