Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation), EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 09.02.2022 Version number 1 Revision: 09.02.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: VnV Liquids - Ruins
UFI: 4600-80PS-V00V-573H

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

No further relevant information available.
Application of the substance / the mixture: Flavor Concentrate

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
VnV Liquids
Gounari 21-23, Piraeus
P.O. BOX: 18531
Tel.: +302104310228
info@vnvliquids.gr
http://vnvliquids.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

GHS07

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

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS07

Signal word: Warning

Hazard-determining components of labelling:
3,4-dihydrocoumarin
Veratraldehyde

Hazard statements:
H317 May cause an allergic skin reaction.

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Precautionary statements
P102 Keep out of reach of children.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture consisting of the following dangerous ingredients:

Ingredients according Regulation (EU) 2020/878:		
CAS: 4940-11-8 EINECS: 225-582-5	2-ethyl-3-hydroxy-4-pyrone Acute Tox. 4, H302	1.0-3.6%
CAS: 121-33-5 EINECS: 204-465-2	vanillin Eye Irrit. 2, H319	0.5-2.5%
CAS: 119-84-6 EINECS: 204-354-9	3,4-dihydrocoumarin Acute Tox. 4, H302; Skin Sens. 1, H317	0.5-1.2%
CAS: 120-14-9 EINECS: 204-373-2	Veratraldehyde Acute Tox. 4, H302; Skin Sens. 1B, H317	0.1-0.6%
CAS: 106-30-9 EINECS: 203-382-9	Ethyl heptanoate Aquatic Acute 1, H400; Aquatic Chronic 3, H412	0.05-0.30%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Take affected persons out into the fresh air.
Seek immediate medical advice.
After inhalation:
If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet. Notify physician.
Seek medical treatment in case of complaints.
After skin contact:
Remove contaminated clothing.
Wash the skin immediately with soap and water.
In case of skin irritation, consult a physician.
After eye contact:
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses.
Continue to rinse for at least 10 minutes.
Get medical attention if irritation occurs.
Avoid strong water jet-risk of cornea damage, consult a doctor.

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After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Seek immediate medical advice.
Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
Hazards May cause an allergic skin reaction.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray.
Foam
Sand or earth
For safety reasons unsuitable extinguishing agents: Water jet
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
Protective equipment:
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
Wear protective goggles.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material
6.1.2 For emergency responders
Wear protective equipment. Keep unprotected persons away.
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).
Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation.
Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
Storage: Store in cool, dry conditions in well sealed receptacles.
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.

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Further information about storage conditions: None.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 57-55-6 Propane-1,2-diol	
WEL (Great Britain)	Long-term value: 474* 10** mg/m³, 150* ppm *total vapour and particulates **particulates
CAS: 123-51-3 Isoamyl alcohol	
WEL (Great Britain)	Short-term value: 458 mg/m³, 125 ppm Long-term value: 366 mg/m³, 100 ppm
IOELV (EU)	Short-term value: 37 mg/m³, 10 ppm Long-term value: 18 mg/m³, 5 ppm

DNELs
Propane-1,2-diol cas number: 57-55-6
Workers (long-term systemic effects), inhalation: 168 mg/m³
Workers (long-term local effects), inhalation: 10 mg/m³
General population (long-term systemic effects), inhalation: 50 mg/m³
General population (long-term systemic effects), dermal: 213 mg / kg bw / day
General population (long-term systemic effects), oral: 85 mg / kg bw / day
General population (long-term local effects), inhalation: 10 mg/m³
PNECs
Propane-1,2 -diol cas number: 57-55-6
Fresh water: 260 mg/l
Marine water: 26 mg/l
Intermittent releases: 183 mg/l
STP: 20000 mg/l
Fresh water sediment: 572 mg/kg dw
Marine sediment: 57.2 mg/kg dw
Soil: 50 mg/kg dw

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Respiratory protection:

In case of insufficient ventilation use suitable respiratory protective device.

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Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Goggles recommended during refilling

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	Not determined
Odour:	Characteristic
Odour threshold:	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	Not Flammable
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density:	Not determined

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Relative density	Not determined
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Cloud point / clarification point:	
Oxidising properties	Not oxidising
Evaporation rate	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions
10.2 Chemical stability Material is stable under normal conditions.
Thermal decomposition / conditions to be avoided Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials Oxidizing agents
10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	>25,301-68,755 mg/kg (rat)

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CAS: 4940-11-8 2-ethyl-3-hydroxy-4-pyrone		
Oral	LD50	1,150 mg/kg (rat)
CAS: 119-84-6 3,4-dihydrocoumarin		
Oral	LD50	1,460 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
CAS: 120-14-9 Veratraldehyde		
Oral	LD50	2,000 mg/kg (rat)
CAS: 106-30-9 Ethyl heptanoate		
Oral	LD50	>34,640 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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 sensitisation May cause an allergic skin reaction.
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.
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.
Additional toxicological information:
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
Propane-1,2-diol cas number: 57-55-6
LC50 Oncorhynchus mykiss, 96 h: 40.613 mg/l
LC50 Ceriodaphnia dubia, 48 h: 18.340 mg/l
LC50 Mysidopsis bahia, 96 h: 18.800 mg/l
ErC50 Selenastrum capricornutum, 96 h: 19.000 mg/l
ErC50 Skeletonema costatum,96 h: 19.100 mg/l

Long–term toxicity to aquatic invertebrates
NOEC (7 days) 13.02 - 29 g/L

Toxicity to microorganisms
EC10 or NOEC for microorganisms 20 g/L
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

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vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Dispose according to National Regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA Void
14.2 UN proper shipping name
ADR, IMDG, IATA Void
14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Void
14.4 Packing group
ADR, IMDG, IATA Void
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Not applicable.
14.7 Maritime transport in bulk according to IMO instruments Not applicable.
UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

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Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors		
CAS: 120-57-0	piperonal	1

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
CAS: 120-57-0	piperonal	1

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Relevant phrases
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
Training hints
Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

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Department issuing SDS:

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3