1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Commercial Product Name	:	Mashmallow 10mg/ml
UFI		YP00-D06P-A00P-CCG6
Trade Mark		Tornadoliq
Company	:	GVG PRO
Company 's Address	:	2 route de l'ouest 94390 BONNEUIL SUR MARNE, FRANCE
Emergency Telephone number	:	0033（0）180915070

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture : Classification according to Regulation (EC) No. 127212008 (CLP) Acute Toxicity-Oral Category 3.

Symbols/ Pictograms :

Signal word(s) : Warning

Hazard statement(s) : H302 Harmful if swallowed.
H317 May cause an allergic skin reaction

GHS label elements

Precautionary statement(s) :

General precautionary statements:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Prevention Precautionary measures :
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
P264 Wash face and hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/eye protection/face protection/ hearing protection/…

Response precautionary measures :
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/…
P302 + P352 IF ON SKIN: Wash with plenty of water/…
P321 Specific treatment (see … on this label)
P330 Rinse mouth.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage precautionary measures:
P405 Store in a well-ventilated plate, keep container tightly close

Waste disposal:
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification : No information provided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS No.	Constituent (%, W/W)
Glycerol	56-81-5	50.00
Propylene glycol	57-55-6	34.51
Vanillin	121-33-5	3.26
N,2,3-Trimethyl-2-isopropylbutamide	51115-67-4	2.70
Benzoic acid	65-85-0	0.88
Nicotine	54-11-5	0.87
Vanillin propylene glycol acetal	68527-74-2	1.70
Ethyl vanillin	121-32-4	1.36
Ethyl maltol	4940-11-8	1.10
Ethyl Vanillin Propylene Glycol Acetal	68527-76-4	0.84
Dipentene	7705-14-8	0.62
Ethyl butyrate	105-54-4	0.48
Triacetin	102-76-1	0.36
N-Ethyl-p-menthane-3-carboxamide	39711-79-0	0.30
Leaf alcohol	928-96-1	0.22
gamma-Decalactone	706-14-9	0.18
Benzyl alcohol	100-51-6	0.18
Ethyl 2-methylbutyrat	7452-79-1	0.14
gamma-Nonanolactone	104-61-0	0.07
2-methylbutyl butyrate	51115-64-1	0.06
5-(4-methyl-1,3-dioxolan-2-yl)-1,3-benzodioxole	61683-99-6	0.04
delta-Dodecalactone	713-95-1	0.04
Linalool	78-70-6	0.03
3-Methylbutyl 3-methylbutanoate	659-70-1	0.03
Methyl dihydrojasmonate	24851-98-7	0.03

4. FIRST AID MEASURES

Emergency treatment for different exposure routes:

Inhalation : Remove to fresh air. If not breathing, give artificial respiration, If bad symptoms last, please seek for medical help.

Skin contact : Remove contaminated clothing. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

Eye contact : Flush eyes with plenty of water or normal saline for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Ingestion : In the event of accidental ingestion, rinse mouth with water. Do not induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Obtain medical advice immediately.

Additional advice : Do not give mouth-to-mouth resuscitation, Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Cool fire exposed containers with water spray.

Suitable extinguishing media	:	Dry Foam, carbon dioxide or dry powder.
Specific hazards	:	Closed containers may build up pressure if exposed to heat (fire).
Special protective equipment for firefighters	:	Wear a fully equipped respirator and protective clothing to protect the skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Ventilate the room where the leakage happens, remove all sources of ignition, and notify the supplier when there is a large amount of leakage.
Methods for cleaning up	:	Small spills can be wiped up with a cloth or paper. Standard absorbants can be used (saw dust, sand, vermiculite). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water. For clean up: Spillages should be disposed of in accordance with Governmental Regulations.

7. HANDLING AND STORAGE

Storage	:	Storage in a cold, dry, well ventilated environment. Store away from food and water supplies. Wash your hands thoroughly before eating and drinking. Storage of chemicals needed to prevent the generation and accumulation of static electricity when handling the container.
Environmental precautions	:	1. Store and handle materials in accordance with all applicable regulations. 2. Keep away from heat source, ignition source and incompatible substance.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

1. Control parameters

Ingredient name	Countries and Regions	Occupational exposure limit (8h)		Occupational exposure limit (Short Time)	
		ppm	mg/m^3	ppm	mg/cm^3
Propylene glycol	Britain		10		
	Britain	150	474		
	New Zealand	150	474		
	Latvia		7		
	Ireland		10		
	Ireland	150	470		
	Canada- Ontario		10		
	Canada- Ontario	50	155		
	Australia		10		
	Australia	150	474		
Glycerol	United States-OSCA		15		
	Korea		10		
	Ireland		10		
	Germany (DFG)		50		100
	Belgium		10		
	Australia		10		
Nicotine	United States-OSCA		0.5		
	Korea		0.5		
	Ireland		0.5		
	Germany (AGS)		0.5		1
	Denmark		0.5		1
	Australia		0.5		
	Latvia		5		

2. Biological limit values

Propylene glycol : No information provided.
Glycerol : No information provided.
Nicotine : No information provided.

3. Monitoring method

1 : EN 14042 Workplace atmospheres –Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2 : GBZ/T 300 Series standard workplace atmospheres determination of toxic substances.

4. engineering controls

1 : Keep away from foodstuffs, beverages and feed.
2 : Wash hands before breaks and at the end of work.
3 : Store protective clothing separately.
4 : Maintain adequate ventilation, especially in enclosed areas.
5 : Ensure eyewash and shower facilities are available near the workplace.
6 : Set up emergency evacuation channel and necessary danger escape area.

5. Individual protection measures

Protection measures :

Eye/face protection : Proper safety glasses must be worn.

Skin protection : Suitable chemical protective clothing and chemical-resistant shoes must be worn.

Respiratory protection : Proper personal respiratory protection must be worn.

6. Environmental exposure controls

Control measures must be made in accordance with Community environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Colour	:	Yellow
Odour	:	Characteristic aroma.
Melting point/Freezing point	:	No information provided.
Boiling point or initial boiling point and boiling range	:	No information provided.
Flammability	:	This product is liquid, not applicable.
Lower and upper explosion limit/Flammability limit	:	No information provided.
Flash point	:	No information provided.
Auto-ignition temperature	:	Product is not self-igniting.
Decomposition temperature	:	No information provided.
pH	:	5.68
Kinematic viscosity	:	No information provided.
Solubility	:	No information provided.
Partition coefficient n-octanol/water(log value)	:	No information provided.
Vapour pressure	:	No information provided.
Density and/or relative density	:	1.1400
Relative vapour density	:	No information provided.
Particle characteristics	:	No information provided.

10. STABILITY AND REACTIVITY

Reactivity	:	There are no particular risks of reaction with other substances in normal conditions of use.
Chemical stability	:	The product is stable in normal conditions of use and storage.
Possibility of hazardous reactions	:	No hazardous reactions are foreseeable in normal conditions of use and storage.
Conditions to avoid	:	To avoid leakage. None in particular. However the usual precautions used for chemical products should be respected.
Polymerization hazard	:	Information not available.
Hazardous decomposition products	:	Carbon oxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 values relevant for classification:

56-81-5	Glycerol	Oral	LD50	12600 mg/kg (rat)
57-55-6	Propylene glycol	Oral	LD50	20 mg/kg (rat)
121-33-5	Vanillin	Oral	LD50	1580 mg/kg(rat)
51115-67-4	N,2,3-Trimethyl-2-isopropylbutamide	Oral	LD50	No Data
65-85-0	Benzoic acid	Oral	LD50	1700 mg/kg(rat)
54-11-5	Nicotine	Oral	LD50	50 mg/kg(rat)
68527-74-2	Vanillin propylene glycol acetal	Oral	LD50	No Data
121-32-4	Ethyl vanillin	Oral	LD50	1590 mg/kg(rat)
4940-11-8	Ethyl maltol	Oral	LD50	1150 mg/kg(rat)
68527-76-4	Ethyl Vanillin Propylene Glycol Acetal	Oral	LD50	No Data
7705-14-8	Dipentene	Oral	LD50	5300 mg/kg(rat)
105-54-4	Ethyl butyrate	Oral	LD50	13 g/kg
102-76-1	Triacetin	Oral	LD50	3 g/kg(rat)
39711-79-0	N-Ethyl-p-menthane-3-carboxamide	Oral	LD50	No Data
928-96-1	Leaf alcohol	Oral	LD50	4700 mg/kg(rat)
706-14-9	gamma-Decalactone	Oral	LD50	56 mg/kg(mouse)
100-51-6	Benzyl alcohol	Oral	LD50	1230 mg/kg(rat)
7452-79-1	Ethyl 2-methylbutyrat	Oral	LD50	No Data
104-61-0	gamma-Nonanolactone	Oral	LD50	6600 mg/kg(rat)
51115-64-1	2-methylbutyl butyrate	Oral	LD50	No Data
61683-99-6	5-(4-methyl-1,3-dioxolan-2-yl)-1,3-benzodioxole	Oral	LD50	No Data
713-95-1	delta-Dodecalactone	Oral	LD50	>5 g/kg(rat)
78-70-6	Linalool	Oral	LD50	2790 mg/kg(rat)

659-70-1	3-Methylbutyl 3-methylbutanoate	Oral	LD50	13956 mg/kg(rabbit)
24851-98-7	Methyl dihydrojasmonate	Oral	LD50	>5 g/kg(rat)

Skin corrosion/irritation : No data available.

Serious eye damage/ irritation : No data available.

Respiratory or skin sensitization : No data available.

Germ cell mutagenicity : No data available.

Carcinogenicity : No data available.

Reproductive toxicity : No data available.

STOT- single exposure : No data available.

STOT- repeated exposure : No data available.

Aspiration hazard : No data available.

12. ECOLOGICAL INFORMATION

Toxicity : No further relevant information available.

Persistence and degradability : No further relevant information available.

Bioaccumulative potential :
CAS# 54-11-5
Bioconcentration in aquatic organisms is low. (BCF: 3, Kow：1.17).
CAS# 57-55-6
Bioconcentration in aquatic organisms is low. (BCF:3, KOW：-0.92).
CAS# 56-81-5
Bioconcentration in aquatic organisms is low. (BCF: 3, Kow： -1.76).
CAS#51115-67-4
Bioconcentration in aquatic organisms is low. (BCF: 3, Kow：2.301).

Mobility in soil :
CAS# 54-11-5
Expected to have high mobility in soil. (Koc:100).
CAS# 57-55-6
Expected to have very high mobility in soil. (Koc:1).
CAS# 56-81-5
Expected to have very high mobility in soil. (Koc:1).
CAS#51115-67-4
Expected to have very high mobility in soil. (Koc:100).

Results of PBT and vPvB assessment :
PBT : Not applicable.
vPvB: Not applicable.

Other adverse effects : No further relevant information available.

Additional ecological information :
General notes:
1. Do not allow product to reach ground water, water course or sewage system.
2. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods :

1. Recommendation:
   Must not be disposed together with household garbage. Do not allow product to reach sewage system.
2. Uncleaned packaging:
   Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

IMDG-CODE

UN number	:	3144
UN proper shipping name	:	NICOTINE COMPOUND,LIQUID, N.O.S.
Transport hazard class	:	6.1
Transport subsidiary hazard class	:	None
Packing group	:	Ⅲ
Marine pollutant（Yes or no）	:	No

IATA-DGR

UN number	:	3144
UN proper shipping name	:	NICOTINE COMPOUND,LIQUID, N.O.S.
Transport hazard class	:	6.1
Transport subsidiary hazard class	:	None
Packing group	:	Ⅲ

UN-ADR

UN number	:	3144
UN proper shipping name	:	NICOTINE COMPOUND,LIQUID, N.O.S.
Transport hazard class	:	6.1
Transport subsidiary hazard class	:	None
Packing group	:	Ⅲ

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.
The following regulations and standards provide corresponding provisions for the management of the chemical:

<<Law of the People's Republic of China on Prevention and Control of Occupational Diseases>>
<<Regulations on The Safety Management of Hazardous Chemicals>>
<<GB13690 General Rules for Chemical Classification and Hazard Notification>>
<<GB30000 Specification for classification and Labeling of Chemicals>>
<<GB/T16483 Contents and project sequence of Chemical Safety Technical Specification>>
<<GBZ2.1 Occupational exposure limits to harmful factors in the workplace - Part 1: Chemical factors>>
<<GB/T17519-2013 Chemical Safety Technical Specification Compilation Guide>>

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product

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