

according to Regulation (EC) No. 1907/2006 (REACH)

FreshUp Sparkling Tabs 5 g

#### Version number: GHS 3.0 (2019-12-20)

Replaces version: GHS 2 (2019-03-18)

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

#### 1.1 **Product identifier** Trade name FreshUp Sparkling Tabs 5 g SDS-Ref 07570 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses Water treatment chemical Professional use Consumer use (private households) Details of the supplier of the safety data sheet Steinbach VertriebsgmbH 1.3 Aistinger Straße 2 4311 Schwertberg Austria Telephone: +43 7262 61431 0

Telephone: +43 7262 61431 0 e-Mail: info@steinbach.at

e-Mail (competent person): sdb@steinbach.at

## 1.4 Emergency telephone number

Country	Name	Postal code/city	Telephone	Opening hours
Austria	Vergiftungsinformationszentrale	1090 Wien	+43 1 406 4343 (24h)	
United King- dom	National Poisons Information Service		111 (24h)	

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word Warning

- Pictograms

GHS07, GHS09





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- Hazard statements

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H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H410	Very toxic to aquatic life with long lasting effects.	
- Precautionary statement	nts	
P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P271	Use only outdoors or in a well-ventilated area.	
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P312	Call a POISON CENTRE/doctor if you feel unwell.	
P391	Collect spillage.	
P501	Dispose of contents/container to hazardous or special waste collection poi	int.
- Supplemental hazard in	nformation	
EUH031	Contact with acids liberates toxic gas.	
EUH206	Warning! Do not use together with other products. May release dangerous	gases (chlorine).
- Hazardous ingredients f	for labelling Symclosene	

## 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not relevant (mixture).

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
Symclosene	CAS No 87-90-1 EC No 201-782-8 Index No 613-031-00-5 REACH Reg. No 01-2120767978-27-xxxx	Ox. Sol. 2 / H272 Acute Tox. 4 / H302 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		50 - < 75
Sodium carbonate	CAS No 497-19-8 EC No 207-838-8 Index No 011-005-00-2 REACH Reg. No 01-2119485498-19-xxxx	Eye Irrit. 2 / H319	(!)	10-<25



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Name of substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
Adipic acid	CAS No 124-04-9	Eye Irrit. 2 / H319		2.5 - < 5
	EC No 204-673-3			
	Index No 607-144-00-9			
	REACH Reg. No 01-2119457561-38-xxxx			

For full text of abbreviations: see SECTION 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCl), Chlorine (Cl2)



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### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
- Use only in well-ventilated areas. Use local and general ventilation.
- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- Handling of incompatible substances or mixtures

Do not mix with acids.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.



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#### Control of effects

- Protect against external exposure, such as

High temperatures, Frost, Humidity, UV-radiation/sunlight

#### - Ventilation requirements

Use local and general ventilation.

#### Packaging compatibilities

Professional use: Only packagings which are approved (e.g. acc. to ADR) may be used. Consumer use (private households): Keep only in original container.

#### Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

## 7.3 Specific end use(s)

There is no additional information.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

_	-			-		-					
Coun try	Name of agent	CAS No	lden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m <sup>3</sup> ]	Nota- tion	Sourc e
EU	chlorine	7782- 50-5	IOELV			0.5	1.5			proc	2006 /15/ EC
GB	dust		WEL		10					i	EH40 / 2005
GB	dust		WEL		4					r	EH40 / 2005
GB	chlorine	7782- 50-5	WEL			0.5	1.5			proc	EH40 / 2005

#### Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
proc	substances released during the process
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise spe-
	cified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (un-
	less otherwise specified)

Relevant DNELs of components of the mixture									
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
Adipic acid	124-04-9	DNEL	65 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects			
Adipic acid	124-04-9	DNEL	65 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects			
Adipic acid	124-04-9	DNEL	19 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects			



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Relevant DNELs of components of the mixture								
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time		
Adipic acid	124-04-9	DNEL	19 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects		
Adipic acid	124-04-9	DNEL	19 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects		
Adipic acid	124-04-9	DNEL	19 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects		

#### **Relevant PNECs of components of the mixture**

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Adipic acid	124-04-9	PNEC	0.126 <sup>mg</sup> /I	aquatic organisms	freshwater	short-term (single instance)
Adipic acid	124-04-9	PNEC	0.013 <sup>mg</sup> /I	aquatic organisms	marine water	short-term (single instance)
Adipic acid	124-04-9	PNEC	59.1 <sup>mg</sup> /I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Adipic acid	124-04-9	PNEC	0.484 <sup>mg</sup> / kg	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Adipic acid	124-04-9	PNEC	0.048 <sup>mg</sup> / kg	aquatic organisms	marine sediment	short-term (single instance)
Adipic acid	124-04-9	PNEC	0.023 <sup>mg</sup> / kg	terrestrial organisms	soil	short-term (single instance)

## 8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection.

#### Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

Particulate filter device (EN 143)

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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# 9.1 Information on basic physical and chemical properties

**SECTION 9: Physical and chemical properties** 

Physical state	solid
Colour	white
Odour	characteristic
Other safety parameters	
pH (value)	6 – 7 (water: 10 <sup>g</sup> / <sub>I</sub> , 25 °C)
Melting point/freezing point	225 °C
Initial boiling point and boiling range	not determined
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	non-combustible
Vapour pressure	66.9 Pa at 20 °C
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Auto-ignition temperature	>400 °C
Decomposition temperature	>225 °C
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidising properties	none
Solubility(ies)	not determined
Partition coefficient	
- n-Octanol/water (log KOW)	0.94

# 9.2 Other information

There is no additional information.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

## 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### **10.4** Conditions to avoid

There are no specific conditions known which have to be avoided.



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#### Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.5 Incompatible materials

There is no additional information.

Release of toxic materials with:

Acids

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful if inhaled.

#### Acute toxicity estimate (ATE)

Oral 793.7 <sup>mg</sup>/kg

Acute toxicity estimate (ATE) of components of the mixture					
Name of substance CAS No Exposure route ATE					
Symclosene	87-90-1	oral	500 <sup>mg</sup> / <sub>kg</sub>		

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

May cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).



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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Symclosene	87-90-1	LC50	0.23 <sup>mg</sup> /I	fish	96 h
Symclosene	87-90-1	EC50	0.17 <sup>mg</sup> /l	aquatic invertebrates	48 h
Symclosene	87-90-1	EbC50	2,700 <sup>mg</sup> /I	algae	72 h
Symclosene	87-90-1	ErC50	>100 <sup>mg</sup> /I	algae	72 h
Sodium carbonate	497-19-8	LC50	300 <sup>mg</sup> /I	fish	96 h
Sodium carbonate	497-19-8	EC50	227 <sup>mg</sup> /l	aquatic invertebrates	48 h
Adipic acid	124-04-9	LC50	46 <sup>mg</sup> /I	aquatic invertebrates	48 h
Adipic acid	124-04-9	ErC50	59 <sup>mg</sup> /I	algae	72 h

#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Symclosene	87-90-1	EC50	2,600 <sup>mg</sup> /l	aquatic invertebrates	21 d
Adipic acid	124-04-9	EC50	18 <sup>mg</sup> /I	aquatic invertebrates	21 d

## 12.2 Persistence and degradability

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture					
Name of substance	CAS No	BCF	Log KOW	BOD5/COD	
Symclosene	87-90-1		-1.31 (25 °C)		
Adipic acid	124-04-9	3.162	0.093 (pH value: 3.3, 25 °C)		

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.



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#### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

#### Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SEC	TION 14: Transport information	
14.1	UN number	3077
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Technical name (hazardous ingredients)	Symclosene
14.3	Transport hazard class(es)	
	Class	9 (environmentally hazardous)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	hazardous to the aquatic environment
	• • • • •	

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	9
Classification code	M7
Packing group	III
Danger label(s)	9, fish and tree

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number: GHS 3.0 (2019-12-20)	Replaces version: GHS 2 (2019-03-18
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	2Z
International Maritime Dangerou	s Goods Code (IMDG)
UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class	9
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	
Danger label(s)	9, fish and tree
Special provisions (SP)	274, 335, 966, 967, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-F
Stowage category	A
International Civil Aviation Organ	nization (ICAO-IATA/DGR)
UN number	3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Class	9
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree
Special provisions (SP)	A97, A158, A179, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

## **SECTION 15: Regulatory information**

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

Relevant provisions of the European Union (EU)

# **Restrictions according to REACH, Annex XVII**

None of the ingredients are listed.

## List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed

### **Seveso Directive**

No	Dangerous substance/hazard categories	
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	
Deco-Paint Directiv	re (2004/42/EC)	
VOC content	0 %	



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Directive on industrial emissions (VOCs, 2010/	75/EU)	

VOC content

0%

# Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

# Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

# Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

#### **National inventories**

Country	Inventory	Status				
EU	REACH Reg.	all ingredients are listed				
Leaend	Leaend					

REACH Reg. REACH registered substances

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
2.2		- Precautionary statements: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
5.2	Hazardous combustion products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride (HCl), Chlorine (Cl2)	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCl), Chlorine (Cl2)	yes
7.3	Specific end use(s): See section 16 for a general overview.	Specific end use(s): There is no additional information.	yes
9.1	Melting point/freezing point: 150.9 °C	Melting point/freezing point: 225 °C	yes
9.1	Initial boiling point and boiling range: 337.5 °C at 1,013 hPa	Initial boiling point and boiling range: not determined	yes
9.1	Solubility(ies): not determined		yes
9.1	Partition coefficient		yes
9.1	- n-octanol/water (log KOW): this information is not available		yes
9.1	Decomposition temperature: >270 °C	Decomposition temperature: >225 °C	yes
9.1	Oxidising properties: none		yes
9.1		Oxidising properties: none	yes
9.1		Solubility(ies): not determined	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
9.1		Partition coefficient	yes
9.1		n-Octanol/water (log KOW): 0.94	yes
10.5	Incompatible materials: Oxidisers	Incompatible materials: There is no additional information.	yes
11.1		Acute toxicity estimate (ATE)	yes
13.1	Professional use: Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste.		yes
13.1	Consumer use (private households): Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste.		yes
13.1		Other disposal recommendations: Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste.	yes
13.1		Relevant provisions relating to waste	yes
13.1		List of wastes (EU), Decision 2000/532/EC on the list of waste: Product Code/ Type of waste: 19 09 99	yes
14.3	Class: 9	Class: 9 (environmentally hazardous)	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Danger label(s): change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement con- cerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Car- riage of Dangerous Goods by Road)
Aquatic Acute	hazardous to the aquatic environment - acute hazard
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level



according to Regulation (EC) No. 1907/2006 (REACH)

# FreshUp Sparkling Tabs 5 g

#### Version number: GHS 3.0 (2019-12-20)

Replaces version: GHS 2 (2019-03-18)

Abbr.	Descriptions of used abbreviations	
EbC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relat- ive to the control	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) rela ive to the control	
Eye Dam.	seriously damaging to the eye	
Eye Irrit.	irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
IOELV	indicative occupational exposure limit value	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interva	
log KOW	n-octanol/water	
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")	
NLP	No-Longer Polymer	
Ox. Sol.	oxidising solid	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
STEL	short-term exposure limit	
STOT SE	specific target organ toxicity - single exposure	
SVHC	Substance of Very High Concern	
TWA	time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	very Persistent and very Bioaccumulative	
WEL	workplace exposure limit	

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).



according to Regulation (EC) No. 1907/2006 (REACH)

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#### Version number: GHS 3.0 (2019-12-20)

#### **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.