

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Frupica SC****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Plant protection product for professional use. Agriculture.
Fungicide**Uses advised against**

No data available.

1.3 Details of the supplier of the safety data sheet**Address**Certis Europe (GB)
Suite 5, 3 Riverside
Granta Park - Great Abington
Cambridgeshire CB21 6AD
United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk**Advice on Safety Data Sheet**certis@certiseurope.co.uk**1.4 Emergency telephone number**

For further advice for medical professionals:

The National Poisons Information Service: -44 (0) 870 600 6266.

For further advice for veterinary surgeons: -44 (0) 20 7635 9195

Dublin – National Poisons Information Centre, Beaumont Hospital, Dublin 9:

Available from 8 am to 10pm – 7 days: +353 (01) 809 2166

Available 24hrs: +353(01)809 2566

Carechem 24 GB +44 870 190 6777

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 1; H410

Carc. 2; H351

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

GHS08



GHS09

Signal word

Warning

Hazard statement(s)

H351 Suspected of causing cancer
 H410 Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 In case of inadequate ventilation wear respiratory protection.
 P391 Collect spillage.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	Mepanipyrim		
	110235-47-7 - 612-229-00-9 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Carc. 2; H351	>= 25,00 - < 50,00 %-b.w.
2	ethanediol		
	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373o	>= 5,00 - < 10,00 %-b.w.
3	Ammonium salt of polyarylphenyl ether sulphate		
	119432-41-6 - - -	Aquatic Chronic 3; H412	< 5,00 %-b.w.
4	1,2-benzisothiazol-3(2H)-one		
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0,05 %-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

4	-	Skin Sens. 1; H317: C >= 0,05%	-	-
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No	Route, target organ, concrete effect
2	H373 oral; kidneys; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

Information regarding waste disposal, see chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 7.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

Recommended storage temperature

Value 0 - 40 °C

Storage stability

Value 2 year(s)

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with foodstuffs.

7.3 Specific end use(s)**Industry solution**

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
1,2-Dihydroxyethane			
particulate			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³
	Comments	Sk	
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
1,2-Dihydroxyethane			
vapour			
	WEL short-term (15 min reference period)	104	mg/m ³ 40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³ 20 ppm
	Comments	Sk	
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Ethane-1,2-diol			
particulate			

Trade name: Frupica SC

Product no.: CE 009 C0102 IRE

Current version : 1.1.0, issued: 20.06.2019

Replaced version: 1.0.0, issued: 18.06.2019

Region: IE

	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethane-1,2-diol				
	vapour				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethylene glycol				
	particulate				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethylene glycol				
	vapour				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Comments	Sk			
	2000/39/EC				
	Ethylene glycol				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Skin resorption / sensibilisation	Skin			
2	ethanediol	107-21-1		203-473-3	
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	1,2-Dihydroxyethane				
	particulate				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	1,2-Dihydroxyethane				
	vapour				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethane-1,2-diol				
	particulate				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethane-1,2-diol				
	vapour				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethylene glycol				
	particulate				
	WEL long-term (8-hr TWA reference period)	10	mg/m ³		
	Comments	Sk			
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)				
	Ethylene glycol				
	vapour				
	WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
	Comments	Sk			
	2000/39/EC				
	Ethylene glycol				

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

WEL short-term (15 min reference period)	104	mg/m ³	40	ppm
WEL long-term (8-hr TWA reference period)	52	mg/m ³	20	ppm
Skin resorption / sensibilisation	Skin			

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	ethanediol			107-21-1 203-473-3
	dermal	Long term (chronic)	systemic	106 mg/kg/day
	inhalative	Long term (chronic)	local	35 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	ethanediol			107-21-1 203-473-3
	dermal	Long term (chronic)	systemic	53 mg/kg/day
	inhalative	Long term (chronic)	local	7 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	ethanediol		107-21-1 203-473-3
	water	fresh water	10 mg/L
	water	marine water	1 mg/L
	water	Aqua intermittent	10 mg/L
	water	fresh water sediment	37 mg/kg dry weight
	water	marine water sediment	3,7 mg/kg dry weight
	soil	-	1,53 mg/kg
	sewage treatment plant	-	199,5 mg/L

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Material thickness >= 0,4 mm

Breakthrough time > 480 min

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

Environmental exposure controls

No data available.

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid, viscous	
cream colour	
Odour	
No data available	
Odour threshold	
No data available	
pH value	
Value	5,5 - 8,5
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	100 °C
Auto-ignition temperature	
Value	460 °C
Source	Manufacturer
Oxidising properties	
not oxidizing	
Explosive properties	
not explosive	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
Value	1,07 g/cm ³
Reference temperature	20 °C
Solubility in water	
No data available	
Solubility(ies)	
No data available	

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Mepanipyrim	110235-47-7	-
log Pow		3,28	
Source		Manufacturer	
Viscosity			
Value		53 - 130 mPa*s	
Reference temperature		20 °C	
Type		dynamic	

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

The product is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity			
No	Product Name		
1	Frupica SC		
LD50	>	5000	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	Frupica SC		
LD50	>	2000	mg/kg
Species	rabbit		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	Frupica SC		
LC50	>	5,13	mg/m ³
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Duration of exposure		20	h

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

Species	rabbit
Source	ECHA
Evaluation	non-irritant

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Duration of exposure		24	h
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Route of exposure		Skin	
Species	Human		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Type of examination		Bacterial Reverse Mutation Test	
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity

No data available

Carcinogenicity

No	Product Name
1	Frupica SC
Source	Manufacturer
Evaluation	Suspected of causing cancer.

STOT - single exposure

No data available

STOT - repeated exposure

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Route of exposure		oral	
NOAEL		150	mg/kg bw/d
Duration of exposure		12	months
Species	rat		
Target organ	kidneys		
Method	OECD 452		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Product Name		
1	Frupica SC		
LC50	>	0,74	mg/l
Duration of exposure		96	h

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

Species	Oncorhynchus mykiss
Source	Manufacturer

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)			
No	Product Name	CAS no.	EC no.
1	Frupica SC		
EC50		0,63	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	Manufacturer		

Toxicity to Daphnia (chronic)			
No	Product Name	CAS no.	EC no.
1	Frupica SC		
NOEC		0,031	mg/l
Duration of exposure		28	day(s)
Species	Daphnia magna		
Source	Manufacturer		

Toxicity to algae (acute)			
No	Product Name	CAS no.	EC no.
1	Frupica SC		
EC50		1,2	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Source	Manufacturer		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Mepanipyrim	110235-47-7	-
Value		0	%
Duration		28	day(s)
Method	CO2 Evolution Test		
Source	Manufacturer		
Evaluation	not readily biodegradable		
2	ethanediol	107-21-1	203-473-3
Type	DOC decrease		
Value	90	- 100	%
Duration		10	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily degradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Mepanipyrim	110235-47-7	-
BCF		280	
Source	Manufacturer		

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Mepanipyrim	110235-47-7	-
log Pow		3,28	

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IE

Source	Manufacturer
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12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	Mepanipyrim	110235-47-7	-
log K _{oc}		2,942	
Source		Manufacturer	

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Mepanipyrim
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Mepanipyrim
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Mepanipyrim
Label	9

Trade name: Frupica SC**Product no.:** CE 009 C0102 IRE**Current version :** 1.1.0, issued: 20.06.2019**Replaced version:** 1.0.0, issued: 18.06.2019**Region:** IEEnvironmentally hazardous
substance mark

Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:

E1

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H373o May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Department issuing safety data sheet

Trade name: Frupica SC

Product no.: CE 009 C0102 IRE

Current version : 1.1.0, issued: 20.06.2019

Replaced version: 1.0.0, issued: 18.06.2019

Region: IE

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This information is based on our present knowledge and experience.
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