



PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

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

1.1. Product identifier

Trade name **PODOCUR SV**

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

Use of the product

**LIQUID ACID
CARE OF ANIMAL FEET IN BOVINE AND OVINE BREEDINGS**

1.3. Details of the supplier of the safety data sheet

Company identification

**HYPRED SAS
55, Boulevard Jules Verger B.P 10180
35803 DINARD Cedex - FRANCE
Tél : +33 (0)2 99 16 50 00
Fax : +33 (0)2 99 16 50 20
e-mail : hybred@hybred.com**

For information regarding this safety data sheet, please contact :
regulatory@hybred.com

1.4. Emergency telephone number

Emergency phone number

Emergency direct number (24 hours a day, 7 days a week) :
(+) 1-760-476-3960 (Asian area, Pacific area)
(+) 1-760-476-3961 (European area)
(+) 1-760-476-3962 (Americas area)
(+) 1-760-476-3959 (Middle eastern countries and African area)
Access code : 333021

**INRS
30, rue Olivier Noyer
75014 Paris - FRANCE
Tél : + 33 (0) 1 45 42 59 59**

SECTION 2: Hazards identification

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Acute toxicity - Category 4 (per oral route)	H302: Harmful if swallowed.
Skin irritation - Category 2	H315: Causes skin irritation.
Skin sensitizer - Category 1	H317: May cause an allergic skin reaction.
Serious eyes damages - Category 1	H318: Causes serious eye damage.
Respiratory sensitizer - Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicant - single exposure - Category 3	H335: May cause respiratory irritation.
Acute toxicity to the aquatic environment - Category 1	H400: Very toxic to aquatic life.
Chronic toxicity to the aquatic environment - Category 2	H411: Toxic to aquatic life with long lasting effects.
Acute toxicity - Category 4 (inhalation)	H332: Harmful if inhaled.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : Glutaraldehyde+ Aluminium sulphate 14H₂O+ Copper sulphate 5H₂O+ Zinc sulphate 6H₂O+ Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Hazard statement(s) :

H302: Harmful if swallowed.

H315: Causes skin irritation.

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) :

P102: Keep out of reach of children.

P260: Do not breathe vapours/spray.

P273: Avoid release to the environment.

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

P285: In case of inadequate ventilation wear respiratory protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310: Immediately call a POISON CENTER or doctor/physician.

P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P362 + P364: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

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

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Chemical nature of the mixture : LIQUID ACID

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
5% <= Aluminium sulphate 14H2O < 15%	16828-12-9	233-135-0	01-2119531538-36	Eye Dam. 1 H318	(1)
5% <= Zinc sulphate 6H2O < 15%	13986-24-8	231-793-3	01-2119474684-27	Acute Tox. 4 (oral) H302 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Aquatic Acute 1 H400 M Factor (Acute) 1 M Factor (Chronic) 1	(1)
5% <= Copper sulphate 5H2O < 15%	7758-99-8	231-847-6	01-2119520566-40	Acute Tox. 4 (oral) H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(1)
2% <= Glutaraldehyde < 10%	111-30-8	203-856-5	Biocidal active substance, regarded as already registered	Acute Tox. 3 (oral) H301 Acute Tox. 2 (inhalation) H330 Skin Corr. 1B H314 Resp. Sens. 1 H334 STOT SE 3 H335 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 M Factor (Acute) 1	(1)
1% <= Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides < 5%	68424-85-1	270-325-2	Biocidal active substance, regarded as already registered	Skin Corr. 1B H314 Acute Tox. 4 (oral) H302 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(1)

Type

- (1) : Substance classified as hazardous for health and/or the environment
- (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
- (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
- (5) : Substance considered as carcinogenic category 1A
- (6) : Substance considered as carcinogenic category 1B
- (7) : Substance considered as mutagenic category 1A
- (8) : Substance considered as mutagenic category 1B
- (9) : Substance considered as reprotoxic category 1A
- (10) : Substance considered as reprotoxic category 1B
- (11) : Substance considered as endocrine disrupter

Full text of H- and EUH- phrases : see section 16.

SECTION 4: First aid measures

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.

In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

In the event of inhalation :

Bring to fresh air.

Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :

Take off immediately all contaminated clothing.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.

Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Rinse mouth.

Do NOT induce vomiting.

Send to hospital.

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

Skin contact : Causes skin irritation.

May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Inhalation : Harmful if inhaled.

May cause respiratory irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Treatments : Symptomatic treatment

SECTION 5: Firefighting measures

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

5.1. Extinguishing media

Suitable extinguishing media :

Pulverized water.

Foam, powder, carbon dioxide.

Unsuitable extinguishing media :

None from our knowledge.

5.2. Special hazards arising from the substance or mixture

PODOCUR SV is non-flammable.

However, combustion can produce carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders :

Evacuate the personnel to a safe location.

Keep people upwind and away from the location of the flow/leak.

Use personal protection equipment.

6.2. Environmental precautions

Intervention limited to trained staff.

Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.

6.3. Methods and material for containment and cleaning up

Small spillage :

Pump in a reservoir of help.

Large spillage :

Mark out, soak up with an inert absorbant and pump in an emergency tank.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

6.4. Reference to other sections

Respect protective measures presented at heading 8.
Refer to section 13 for the elimination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe vapour.
Avoid contact with skin, eyes and clothing.
Do not breathe spray.
Do not eat, drink or smoke in work area. Avoid projections during use.
Do not mix with strong bases or strong acids.
Do not mix with strong oxidizing agents.
Operate in a well ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Do not store below the point of freezing.
Keep only in the original container.
Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.
Keep away from incompatible matters (see heading 10).
Keep container closed.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

PODOCUR SV is for use as a biocide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Substance	Country	Type	Value	Unit	Comments	source	
Glutaraldehyde	FRA	VLCT Short term	0,2	ppm	Valeur limite indicative	International limit values for chemical agents	
			0,8	mg/m ³	Valeur limite indicative	International limit values for chemical agents	
		VLEP 8h	0,1	ppm	Valeur limite indicative	International limit values for chemical agents	
			0,4	mg/m ³	Valeur limite indicative	International limit values for chemical agents	
	AUT	OEL 8h	0,1	ppm		International limit values for chemical agents	
			0,4	mg/m ³		International limit values for chemical agents	
		OEL Short term	0,1	ppm		International limit values for chemical agents	
			0,4	mg/m ³		International limit values for chemical agents	
	BEL	OEL Short term	0,05	ppm		International limit values for chemical agents	
			0,21	mg/m ³		International limit values for chemical agents	
	CHE	OEL 8h	0,05	ppm		International limit values for chemical agents	
			0,21	mg/m ³		International limit values for chemical agents	
		OEL Short term	0,1	ppm		International limit values for chemical agents	
			0,42	mg/m ³		International limit values for chemical agents	
	DEU	OEL 8h	0,05	ppm		International limit values for chemical agents (German Committee on Hazardous Substances)	
			0,2	mg/m ³		International limit values for chemical agents (German Committee on Hazardous Substances)	
			0,05	ppm		International limit values for chemical agents (German Research Foundation)	
			0,24	mg/m ³		International limit values for chemical agents (German Research Foundation)	
		OEL Short term	0,1	ppm	STV 15 minutes average value A momentary value of 0,2 ml/m ³ (0,83 mg/gm ³) should not be exceeded.	International limit values for chemical agents (German Research Foundation)	
			0,48	mg/m ³	STV 15 minutes average value A momentary value of 0,2 ml/m ³ (0,83 mg/gm ³) should not be exceeded.	International limit values for chemical agents (German Research Foundation)	
			0,1	ppm	15 minutes average value	International limit values for chemical agents (German Committee on Hazardous Substances)	
			0,4	mg/m ³	15 minutes average value	International limit values for chemical agents (German Committee on Hazardous Substances)	
		DNK	OEL 8h	0,2	ppm		International limit values for chemical agents
				0,8	mg/m ³		International limit values for chemical agents
	OEL Short term		0,2	ppm		International limit values for chemical agents	
			0,8	mg/m ³		International limit values for chemical agents	
	ESP	OEL Short term	0,05	ppm	sen	International limit values for chemical agents	
			0,2	mg/m ³	sen	International limit values for chemical agents	
GBR	OEL 8h	0,05	ppm		International limit values for chemical agents		
		0,2	mg/m ³		International limit values for chemical agents		
	OEL Short term	0,05	ppm		International limit values for chemical agents		

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Glutaraldehyde	GBR	OEL Short term	0,2	mg/m ³		International limit values for chemical agents
	SWE	OEL Short term	0,1	ppm	Ceiling limit vaue	International limit values for chemical agents
			0,4	mg/m ³	Ceiling limit vaue	International limit values for chemical agents
	POL	NDS 8h	0,4	mg/m ³		International limit values for chemical agents
		NDSCh Short term	0,6	mg/m ³		International limit values for chemical agents
	LVA	OEL 8h	5	mg/m ³		International limit values for chemical agents

8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Butyl rubber.

Nitril.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

None under normal conditions of use.

Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Appearance	Clear liquid
Colour	blue to green
Odour	Aldehyde
Odour threshold	Not available
Pure pH	2.9±0.6
pH value at 10g/l	4±0.3
Freezing point :	0 °C
Boiling point	Not available
Flash point	Not applicable
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.235±0.01 g/cm ³
Relative density	1.235±0.01
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

No additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions of use.

10.2. Chemical stability

Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Avoid contact with strong oxidizing agents, strong bases and strong acids.

10.4. Conditions to avoid

Storage below the freezing point.

Light, heat.

10.5. Incompatible materials

Strong acids.

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Stong basis
Strong oxidizing agents.

10.6. Hazardous decomposition products

The thermal decomposition products can include carbon monoxide and carbon dioxide.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance-related data:

Acute toxicity

Zinc sulphate 6H₂O (98 %) : LD 50 - oral rat 862 mg/kg. - MSDS supplier

Copper sulphate 5H₂O (96%) : LD 50 - oral rat 301 - 2,000 mg/kg. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LD 50 - oral rat (OECD 401): > 300 - 2,000 mg/kg. - MSDS supplier

Zinc sulphate 6H₂O : LD 50 - dermal rat > 2,000 mg/kg. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (50%) : LD 50 - oral rat 795 mg/kg. - MSDS supplier

Glutaraldehyde (50%) : LC 50 - inhalation - 4h rat (OECD 403): 0.48 mg/L. - aerosol - MSDS supplier

Glutaraldehyde (50%) : LD 50 - oral rat (OECD 401): 158 mg/L. - MSDS supplier

Glutaraldehyde (50%) : LD 50 - dermal rabbit (OECD 402): > 2,000 mg/kg. - MSDS supplier

Skin corrosion/irritation

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Cutaneous contact . Corrosive.; Causes severe burns. - MSDS supplier

Glutaraldehyde : Cutaneous contact . Corrosive. - MSDS supplier

Copper sulphate 5H₂O (96%) : Cutaneous contact . Irritating - MSDS supplier

Serious eye damage/eye irritation

Glutaraldehyde : Eye contact : . Corrosive. - MSDS supplier

Copper sulphate 5H₂O (96%) : Eye contact : . Eye irritation - MSDS supplier

Zinc sulphate 6H₂O : Eye irritation . Risk of serious damage of eyes - MSDS supplier

Aluminium sulphate 14H₂O : Eye contact : . Serious damage to eyes - MSDS supplier

Sensitisation

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Sensitisation . Not sensitising - MSDS supplier

Glutaraldehyde : Inhalation sensitisation . Sensitizing - MSDS supplier

Glutaraldehyde : Skin sensitisation man . May cause an allergic reaction - MSDS supplier

Zinc sulphate 6H₂O : Skin sensitisation . Not sensitising - MSDS supplier

Aluminium sulphate 14H₂O : Sensitisation . Not sensitising - MSDS supplier

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Mutagenicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : (Ames test): . Not mutagenic - MSDS supplier

Reproductive toxicity

Glutaraldehyde : Teratogenicity laboratory animals . Not teratogenic - MSDS supplier

Specific target organ toxicity - single exposure

Glutaraldehyde : . May cause respiratory irritation. - MSDS supplier

CHRONIC TOXICITY

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : NOEC - 72h algae (OECD 201): 0.001 - 0.01 mg/L. - MSDS supplier

Mix-related data:

Acute toxicity

LD 50 - oral rat (Sprague-Dawley) (OECD 423): 300 - 2,000 mg/kg bw.

Skin corrosion/irritation

Skin irritation . The mixture is considered to be irritating to the skin according to the Regulation 1272/2008/EC.

Serious eye damage/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Respiratory or skin sensitisation

Respiratory sensitization . The mix is considered to cause respiratory sensitisation under Regulation 1272/2008/EC.

Skin sensitisation . The mix is considered to cause cutaneous sensitisation under Regulation 1272/2008/EC.

Mutagenicity

. The classification criteria are not met given the available data.

Carcinogenicity

. The classification criteria are not met given the available data.

Reproductive toxicity

. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure

Respiratory tracts irritation . May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Skin contact : Causes skin irritation.

May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Ingestion : Harmful if swallowed.

Inhalation : Harmful if inhaled.

May cause respiratory irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 12: Ecological information

12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

Substance-related data:

Acute toxicity

Glutaraldehyde : LC 50 - 48h daphnia (Daphnia magna) 0.69 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LC 50 - 96h fishes 0.1 - 1 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : EC 50 - 48h daphnia 0.01 - 0.1 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : IC 50 - 72h algae 0.01 - 0.1 mg/L. - MSDS supplier

Copper sulphate 5H₂O : EC 50 - 48h shellfishes 0.024 mg/L. - Result given for the anhydrous form - MSDS supplier

Copper sulphate 5H₂O : LC 50 - 48h fishes (Bluegill) 0.6 mg/L. - Result given for the anhydrous form - MSDS supplier

Glutaraldehyde : LC 50 - 96h fishes (Pimephales promelas) 10.8 mg/L. - MSDS supplier

Glutaraldehyde : EC 50 - 72h algae 2.64 mg/L. - MSDS supplier

Copper sulphate 5H₂O : LC 50 - 96h fishes (Truite arc en ciel) 0.1 mg/L. - Result given for the anhydrous form - MSDS supplier

Zinc sulphate 6H₂O : EC 50 - 48h daphnia (Ceriodaphnia dubia) < pH7 - 1.7 mg/L. - Expressed in Zn - MSDS supplier

Copper sulphate 5H₂O : LC 50 - 96h goldfish 0.1 mg/L. - Result given for the anhydrous form - MSDS supplier

Zinc sulphate 6H₂O : EC 50 - 72h algae (Selenastrum capricornutum) > pH7 - 0.56 mg/L. - Expressed in Zn - MSDS supplier

CHRONIC TOXICITY

Glutaraldehyde : NOEC - 72h algae 0.025 mg/L. - MSDS supplier

Zinc sulphate 6H₂O : NOEC algae 0.04 mg/L. - MSDS supplier

Degradability

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (100%) : Ultimate aerobic biodegradability - 28days (OECD 301 D): > 60 %. Easily biodegradable. - MSDS supplier

Glutaraldehyde : 28days (OECD 301A): 83 %. Easily biodegradable. - MSDS supplier

Zinc sulphate 6H₂O : Biodegradability . Difficult to biodegrade - MSDS supplier

Bioaccumulation

Glutaraldehyde : Log Pow - 0.333 . Not bioaccumulative - MSDS supplier

Zinc sulphate 6H₂O : . unlikely - MSDS supplier

Mix-related data:

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

Acute toxicity

fishes . Not determined
daphnia . Not determined
algae . Not determined

CHRONIC TOXICITY

. No data available.

Degradability

. No data available.

Bioaccumulation

. No data available.

Mobility

. No data available.

Conclusion :

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Treatment of the mixture :

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

SECTION 14: Transport information

ROAD TRANSPORT:

Rail/Route (RID/ADR)

UN no : 1760

UN proper shipping name : CORROSIVE LIQUID, N.O.S. (Copper sulphate 5H₂O+Zinc sulphate 6H₂O+Aluminium sulphate 14H₂O+Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides+Glutaraldehyde)

Class : 8

Packing group : III

Hazard code : 80

Label : 8



Tunnel code : E

Environmental hazard : Yes (Copper sulphate 5H₂O + Zinc sulphate 6H₂O + Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides + Glutaraldehyde)

Special precautions for user : No information.

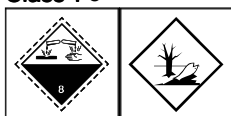
MARITIME TRANSPORT :

IMDG

UN no : 1760

UN proper shipping name : CORROSIVE LIQUID, N.O.S. (Copper sulphate 5H₂O+Zinc sulphate 6H₂O+Aluminium sulphate 14H₂O+Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides+Glutaraldehyde)

Class : 8



Packing group : III

Marine pollutant : Yes (Copper sulphate 5H₂O + Zinc sulphate 6H₂O + Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides + Glutaraldehyde)

Special precautions for user : No information.

EmS number : F-A, S-B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

Not concerned

SECTION 15: Regulatory information

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

Regulations relating to the hazards from major accidents :

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

SEVESO 3 Directive (2012/18/EC) : E1

Regulations relating to the classification, packing and labelling of substances and mixes :

Regulation 1272/2008/EC amended.

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC
Decision 2014/955/EC which establishes the list of hazardous waste.

Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC : Not applicable

Regulation 1005/2009/EC amended on substances that deplete the ozone layer : Not applicable

Regulation (EC) 648/2004 :

Not concerned

Comply with national and local legislation.

15.2. Chemical safety assessment

No

SECTION 16: Other information

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

Revision of the safety data sheet according to 2015/830/EC Regulation.

PODOCUR SV

Code: 0 30C 0

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 09/02/17

Print Date : 09/02/17

List of H phrases referred to in sections 2 and 3 :

- H301 : Toxic if swallowed.
- H302 : Harmful if swallowed.
- H314 : Causes severe skin burns and eye damage.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H330 : Fatal if inhaled.
- H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 : May cause respiratory irritation.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- H411 : Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

- MSDS supplier
- International limit values for chemical agents

Historical :

- Version 6.0.0
- Cancels and replaces previous version 5.0.1