

Episurf-Neo

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2015/830)

Version: 1.1

Version date: 28/09/2017

Language: EN

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

1.1. Product identifier	
Trade name / designation :	Episurf-Neo
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Relevant identified uses :	Epilame solution for surface treatment. Provides treated surfaces with hydrophobic and oleophobic properties.
1.3. Details of the supplier of the safety	data sheet
Supplier :	SURFACTIS TECHNOLOGIES 22 rue Amsler, FR – 49100 ANGERS Phone: +33 2 41 34 95 03
1.4. Emergency Telephone Number	

Ireland: +35 (0) 31 837 9964 (medical professionals) +35 (0) 31 809 2166 (public) Malta: +356 2545 4030

United Kingdom: In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220

South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

	Classification Aquatic Chronic 4	Hazard statemer H413	ts May cause long lasting harmful effects to aquatic life.
2.2. Label eler	nents		
Labelling acco	rding to Regulation (EC) No. 12	72/2008 [CLP]	
Hazard pictogr Signal word Product identi Hazard Statem Additional info Precautionary Precautionary Precautionary Precautionary	rams fiers eents ormation Statements - General Statements - Prevention Statements - Response Statements - Storage Statements - Disposal	- - H413 - May cause - - P273 - Avoid relea - - P501 - Dispose of local/regional/nat	long lasting harmful effects to aquatic life. se to the environment. contents/container in accordance with applicable ional/international regulations.

2.3. Other hazards

The substances in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. Not available

SECTION 3: Composition/information on ingredients

3.1. Substances				
Substance	C (%)	Classification	CAS Number	Note
reaction mass of (3E)- 1,1,1,2,2,3,4,5,6,6,7,7,7-tridecafluoro-5- methoxyhept-3-ene and (2E)- 1,1,1,2,3,4,5,5,6,6,7,7,7-tridecafluoro-4- methoxyhept-2-ene and (3E)- 1,1,1,2,2,4,5,5,6,6,7,7,7-tridecafluoro-3- methoxyhept-3-ene EC N°:700-755-2	C>98%	Aquatic Chronic 4: H413	69296-04-4	-
Perfluoropolyether bisphosphonate	C<2%		1383252-94-5	08-202
3.2. Mixtures				
Not available				
3.3. Remark				
Not available				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
General information : N n c a Following inhalation : P	lever give anythin nedical advice im asualty to fresh a dminister artificia rovide fresh air.	ng by mouth to an unconscious person mediately. Take off immediately all co ir and keep warm and at rest. If breat al respiration. Get medical advice/attention if you fee	or a person with cramps. Seek ntaminated clothing. Remove hing is irregular or stopped, el unwell.	
Following skin contact : R	emove contamin	ated, saturated clothing immediately.	Wash with plenty of water.	
Following eye contact : A	fter contact with	the eyes, rinse with water with the ey	elids open for a sufficient lengtl	n of
t Following ingestion : If c v	ime, then consult swallowed, do n ontainer or label /ater.	: an ophthalmologist immediately. ot induce vomiting: seek medical advi . Observe risk of aspiration if vomiting	ce immediately and show this occurs. Rinse mouth thoroughly	[,] with
4.2. Most important symptoms and effects	, both acute and	delayed		
Symptoms : C d e	ontact with eyes iscomfort. Ingest dema and pneun	may cause the following symptoms: in ion may cause the following symptom nonia.	ritation, tearing, redness or s: aspiration may cause pulmon	ary
4.3. Indication of any immediate medical a	ttention and spe	cial treatment needed		
Special treatment : T	reat symptomati	cally.		
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Co-ordinate fire-fighting measures to the fin Not available	re surroundings.			
5.2. Special hazards arising from the substa	ance or mixture			
This product is not flammable, fire or intens Hazardous combustion products In case of fire may be liberated: Carbon mo products may cause health problems.	se heat may caus noxide. Carbon d	e the packaging to break. ioxide (CO2). Carbonyl fluoride. Hydro	gen fluoride. Inhalation of deco	mposition
5.3. Advice for firefighters				
Special protective equipment for firefighter Use appropriate respiratory protection. We 5.4. Additional information	s ar suitable prote	ctive clothing. Wear suitable gloves.		

Consult the appropriate authorities about waste disposal. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protection equipment. Evacuate area. Remove persons to safety.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Provide fresh air. Never use water. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Use appropriate container to avoid environmental contamination. Do not empty into drains.

6.4. Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information

Not available

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Technical ventilation of workplace. Protect from direct sunlight. Warning! Container under pressure.

Protective measures

Advices on general occupational hygiene

Use personal protective equipment as required. Personal protection equipment: see section 8. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Observe normal safety precautions when using chemicals. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container. Protect from contamination. Contain leaks or spills within cabinets with removable trays. Store in a dry place. Store in a closed container. Avoid freezing, if stored below -10 ° C, mix before use.

Advice on joint storage

Materials to avoid:

No special material to report.

7.3. Specific end uses

No information available.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Not available

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Personal protection equipment



Eye/face protection

Skin protection

- : Suitable eye protection: Eye glasses with side protection. When there is a possibility of contact with the face by spraying, spraying or contact with the material in the air, wear a face shield.
- Hand protection: Suitable material:

Protective gloves resistant to solvents. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material depends on the penetration times, on the permeation rate and on degradation. Neoprene gloves. Gloves in viton (thickness 0.7 mm, duration of use 120min). The selection of suitable gloves depends not only on the material, but also on other quality criteria, which may vary

Respiratory protection	 from manufacturer to manufacturer. Since the product represents a preparation composed of several substances, the resistance of the glove materials cannot be calculated in advance and must then be checked before use. Hand protection: Breakthrough time: Breakthrough times and swelling properties of the material must be taken into consideration. Body protection: Suitable protective clothing: Wear suitable protective clothing. Suitable respiratory protection apparatus: In case of insufficient ventilation, wear suitable respiratory equipment. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Respiratory protection in accordance with EN137.
8.3. Additional information	

Not available

SECTION 9: Physical and chemical Properties

9.1. Information on basic physical and chemical properties

Physical state:	LIQUID
Colour:	Colorless and clear
Odour:	Slight, musty
Odour threshold:	Not available
PH:	Not applicable
Melting point/freezing point:	<-80 ° C at 1 013 hPa
Initial boiling point and boiling range:	110 °C
Flash point:	Without °C
Evaporation rate:	Not available
Flammability:	Not applicable
Upper/lower flammability or explosive	Not available
limits:	
Vapour pressure:	28.8 hPa (25 ° C)
Vapour density:	Not available
Relative density:	1.58 g / cm³ (25 ° C)
Solubility(ies):	0.15 mg / L, not miscible
Partition coefficient: n-octanol/water	Not available
(Log KOC):	
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other safety information

Not available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Stable at normal ambient temperature and pressure.

10.2. Chemical stability

This product is chemically stable. No decomposition if stored and handled according to specifications.

10.3. Possibility of hazardous reactions

No decomposition if stored and handled according to specifications.

10.4. Conditions to avoid

The product is not flammable in air at ambient temperature and pressure. Under pressure of oxygen or air, the mixture may become flammable.

10.5. Incompatible materials

Materials to avoid

Strong acid. Alkali metals. Alkaline earth metals powdered metals. Powdered metal salts.

10.6. Hazardous decomposition products Hydrogen fluoride. Carbon monoxide. Carbonyl fluoride. 10.7. Additional information Not available **SECTION 11: Toxicological information** 11.1. Acute oral toxicity **Data for mixture** Not available **Substances** Not available 11.2. Acute skin toxicity **Data for mixture** Not available **Substances** Not available 11.3. Acute inhalation toxicity Data for mixture Not available **Substances** Not available 11.4. Skin corrosion Data for mixture Not available **Substances** Not available 11.5. Eye damage **Data for mixture** Not available **Substances** Not available 11.6. Skin sensitisation Data for mixture Not available **Substances** Not available **11.7. STOT RE** Data for mixture Not available **Substances** Not available 11.8. STOT SE Data for mixture Not available Substances Not available 11.9. Carcinogenicity Data for mixture Not available **Substances** Not available

11.10. Reproductive and Developmental Toxicity

Data for mixture

Not available

Substances

Not available

11.11. Genotoxicity

Data for mixture

Not available

Substances

Not available

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Substances

reaction mass of (3E)-1,1,1,2,2,3,4,5,6,6	,7,7,7	-trideca	fluoro-5-methoxyhept-3-ene and (2E)-1,1,1,2,3,4,5,5	,6,6,7,7,7-tridecafluoro-4-methoxyhept-2-ene and (3E)-
1,1,1,2,2,4,5,5,6,6,7,7,7-tridecafluoro-3	-meth	oxyhep	t-3-ene (CAS: <u>)</u>		
Animals / category	:	algea	or cyanobacteria		
Species	:	Pseud	okirchneriella subcapitata (green algae)		
test Duration	:	72			
Unit	:	h			
Guideline	:	No ac	ute toxicity effect was shown even at concentra	tions up to the solubility limit.	
subendpoint			Value	Units	
FC50			>0.000477	mg/L	

Aquatic Chronic 1

Substances

reaction mass of (3E)-1,1,1,2,2,3	3,4,5,6,6,7,7,7-tridecafluoro-5-meth	oxyhept-3-ene and (2E)-1,1,	1,2,3,4,5,5,6,6,7,7,7-tridecafluor	o-4-methoxyhept-2-ene and (3E)-
1,1,1,2,2,4,5,5,6,6,7,7,7-tridecat	fluoro-3-methoxyhept-3-ene (CAS:)			
Animals / catagony	· crustacea			

Anniais / Category	•	Clustacea
Species	:	Daphnia magna (Big water flea).
Guideline	:	OECD 211
Exposure duration / value	:	21
Exposure duration / unit	:	days
Remark substance	:	No acute toxicity effect was shown even at concentrations up to the limit of aqueous solubility.

subendpoint	Value	Units
NOEC	> 0.107	mg/L

12.2. Persistence and degradability

Biodegradability:

- Methoxytridecafluorohexene isomers / 28 days, biodegradation of 39.5%

Method OECD Guideline 302 Inherently biodegradable

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)

Substances

reaction mass of (3E)-1,1,1,2,2,3	,4,5,6,6,7,7,7	-tridecafluoro-5-methoxyhept-3-ene and (2E)-1,1,1,2,3,4,5,5,6,6,7,7,7-tridecafluoro-4-methoxyhept-2-ene and (3E)-
1,1,1,2,2,4,5,5,6,6,7,7,7-tridecafl	uoro-3-meth	oxyhept-3-ene (CAS:)
Species	:	Cyprinus carpio (carp)
Guideline	:	The substance has the potential to bioaccumulate
Bioconcentration factor (BC	Έ)	

1990

12.4.	Mobil	ity in soi
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Data for mixture

Distribution

: Koc: 31600

This product should not be mobile in soils.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

Global Warming Potential (GWP): <10.

12.7. Additional ecotoxicological information

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

Waste treatment options: Appropriate disposal / Product:

Regenerate by distillation, incinerate or transfer to an authorized waste facility. Can be used after reconditioning. If recycling is not possible, dispose of according to local regulations.

Do not allow to enter into surface water or drains.

Waste treatment options: Appropriate disposal / Package:

If recycling is not possible, dispose of according to local regulations.

13.2. Additional information

Not available

SECTION 14: Transport information

14.1. UN number

Non classified

14.2. UN proper shipping name

- Land Transportation ADR/RID: non regulated

- Air Transportation ICAO/IATA: non regulated

14.3. Transport hazard class(es)

- Land Transportation ADR/RID: non classified

- Air Transportation ICAO/IATA: non classified

14.4. Packing group

Not available

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable.

14.8. Additional information

Not available

SECTION 15: Regulatory information

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

Observe Directive 98/24 / EC on the protection of the health and safety of workers from the risks related to chemical agents at the workplace. Not available

15.2. Chemical Safety Assessment

For this product a chemical safety assessment is not required.

15.3. Additional information

Not available

SECTION 16: Other	information
Creation date: Version date:	15/11/2016 28/09/2017
Printing date:	28/09/2017
16.1. Indication of change	ges
Not available	

16.2. Abbreviations and acronyms

ADR: European Agreement on the Transport of Dangerous Goods by Road. IMDG: International Maritime Code for Dangerous Goods. IATA: International Air Transport Association. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. EINECS: European Inventory of Existing Commercial Chemical Substances. ELINCS: European List of Notified Chemical Substances. CAS: Chemical Abstracts Service (Division of the American Chemical Society). DNEL: Derived No-Effect Level (REACH). PNEC: Predicted No-Effect Concentration (REACH). Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2. Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3. ATE: Acute toxicity assessment. CLP: labeling and packaging classification. EC50: average effective concentration. EN: European standard. EPA: environmental protection agency. EC50r: concentration where 50% inhibition of growth rate is observed. EyC50: concentration where an inhibition of 50% of the yield is observed. LC50 median lethal concentration. LD50 median lethal dose. LOEC minimum concentration with observed effect. LOEL minimum dose with observed effect. NOAEC no observed adverse effect level. NOAEL no observed toxic effect. NOEC no observed effect concentration. NOEL observed no effect level. OECD Organization for Economic Co - operation and Development. OPPTS Office of Prevention of Pesticides and Toxic Substances. PBT persistent bioaccumulative and toxic. STEL short-term limit value. TWA weighted value as a function of time.

16.3. Key literature references and sources for data

Not available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Not available

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H413

May cause long lasting harmful effects to aquatic life.

16.6. Training advice

Not available

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsability of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.