# **SAFETY DATA SHEET**

Safety Data Sheet according to (EC) No. 1907/2006.

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

#### 1.1. Product identifier:

dPCR oil

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

Liquid for research and analysis. Restricted to professional users.

# 1.3. Details of the supplier of the safety data sheet:

Samplix Aps Phone: (+45) - 28 30 95 07

Bregnerødvej 96 DK-3460 Birkerød

Denmark

Responsible person for the safety data sheet (e-mail): rsh@samplix.com

1.4. Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture:

Environmentally hazardous liquid.

CLP (1272/2008): Aquatic Chronic 4;H413

#### 2.2. Label elements:

H413: May cause long lasting harmful effects to aquatic life.

P273: Avoid release to the environment.

### 2.3. Other hazards: None known.

PBT/vPvB: 3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane is under consideration as PBT/vPvB. Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

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

# 3.2. Mixtures:

 % w/w
 Substance name
 CAS-no.
 EC-no.
 Index-no.
 REACH reg.no.
 Classification

 >80
 3-ethoxy-1,1,1,2,3, 297730-93-9
 435-790-1
 603-224-00-2
 01-0000018188-64
 Aquatic Chronic 4;H413

 4,4,5,5,6,6,6-dodeca 4,4,5,5,6,6,6-dodeca 4,4,5,5,6,6,6-dodeca 4,4,5,5,6,6,6-dodeca

fluoro-2-(trifluoromethyl)-hexane

Wording of hazard statements - see section 16.

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

### 4.1. Description of first aid measures:

Inhalation: Move the affected person to fresh air. Keep at rest. If needed: Get medical attention.

Skin contact: Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical

advice.

Eye contact: Immediately flush with water or physiological salt water for at least 5 minutes, holding eyelids open, remember

to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. In case of discomfort: Seek medical advice.

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

May cause slight irritation of eyes, skin, lungs and gastrointestinal tract.

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

Show this safety data sheet to a physician or emergency ward.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media:

Not flammable.

# 5.2. Special hazards arising from the substance or mixture:

Not relevant (the product is not combustible).

### 5.3. Advice for firefighters:

Do not inhale smoke fumes. When extinguishing surrounding fires use breathing apparatus with an independent source of air.

# **SECTION 6: Accidental release measures**

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

Use personal protective equipment - see section 8.

#### **6.2.** Environmental precautions:

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

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

Wipe up spilled liquid and place in a suitable container for disposal. Clean with water. Further handling of spillage - see section 13.

#### 6.4. Reference to other sections:

See references above.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling:

Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Wash with plenty of water and soap after end use.

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

Store in a tightly closed original container in a well-ventilated area.

### 7.3. Specific end use(s):

See section 1.

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

#### 8.1. Control parameters:

Occupational exposure limits: None

DNEL:	Exposure	Value	Population	<b>Effects</b>
CAS: 297730-93-9	Long term - inhalation	$1135 \text{ mg/m}^3$	Workers	Systemic
	Long term - skin	3.3 mg/kg/d	Workers	Systemic
	Long term - inhalation	$282 \text{ mg/m}^3$	Consumer	Systemic
	Long term - skin	1.7 mg/kg/d	Consumer	Systemic
	Long term - ingestion	1.7 mg/kg/d	Consumer	Systemic
PNEC:	Medium	<u>Value</u>		
CAS: 297730-93-9	Fresh water	0.008 mg/l		
	Sea water	0.001 mg/l		
	Sewage treatment plant (STP)	1 mg/l		
	Fresh water sediment	0.006 mg/kg		
	Sea water sediment	0.001 mg/kg		
	Soil	0.01 mg/kg		

# 8.2. Exposure controls:

Appropriate engineering controls: Ensure adequate ventilation.

Personal protective equipment:

Inhalation: Normally not necessary.

Skin: Wear protective gloves of e.g. nitrile or butyl (EN374). Breakthrough time, approx. 3 hours.

Eyes: Wear tight fitting safety goggles (EN166) when there is a risk of splashes.

Environmental exposure controls: None particular.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties:

Physical state: Liquid Colour: Colourless Odour: No odour Melting point/freezing point (°C):  $\sim 100$ Boiling point or initial boiling point and boiling range (°C): ~ 129 Flammability (solid, gas): Not relevant Lower and upper explosion limit (vol-%): Not relevant Flash point (°C): No flash Auto-ignition temperature (°C): 330 Decomposition temperature (°C): Not relevant Neutral pH: Viscosity (cSt, 25°C): 0.8

Solubility: Low solubility in water (<0.004 ppm)

Partition coefficient n-octanol/water (log value):

Vapour pressure (Pa, 20°C)

Density and/or relative density:

Relative vapour density:

Particle characteristics:

Not determined

9.2. Other information:

None relevant.

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# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity:

No available data.

#### 10.2. Chemical stability:

Stable under the recommended storage conditions - see section 7.

#### 10.3. Possibility of hazardous reactions:

None known.

#### 10.4. Conditions to avoid:

None known.

### 10.5. Incompatible materials:

Strong alkalines.

### 10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed such as oxides of carbon and hydrogen fluoride.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

The mixture contains no hazardous substances in significant quantities.

Information on likely routes of exposure: inhalation, skin and ingestion.

Symptoms:

Inhalation: Vapours may cause irritation to the airways.

Skin: May cause irritation by prolonged contact with skin.

Eyes: May cause eye irritation.

Ingestion: May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.

Chronic effects: None known.

11.2. Information on other hazards:

None known

# **SECTION 12: Ecological information**

### 12.1. Toxicity:

12:1: 1 Oxicity:				
Aquatic	Data	Test (Media)	Data source	
Fish	LC <sub>50</sub> (Oryzias latipas, 96h): >10 mg/l (CAS: 297730-93-9)	JIS K 0102-1998-71	ECHA	
	LC <sub>50</sub> (Pimephales promelas, 96h): 4149 mg/l (PFBA photolysis product)	OECD 203 (FW)	ECHA	
Daphnia	EC <sub>50</sub> (Daphnia magna, 48h) = 3475 mg/l (CAS: 297730-93-9)	No information (FW)	ECHA	
	EC <sub>50</sub> (Hyalella azteca, 48h) = 971 mg/l (PFBA photolyseprodukt)	OECD 202 (FW)	ECHA	
Algea	EC <sub>50</sub> (Chlorella vulgaris, 72h): > 987 mg/l (PFBA photolysis product)	OECD 201 (FW)	ECHA	

# 12.2. Persistence and degradability:

CAS: 297730-93-9 is not rapidly biodegradable (OECD 301D, 28 d., 1% degradation).

# 12.3. Bioaccumulative potential:

CAS: 297730-93-9:  $log K_{ow} = 6 - high bioaccumulative potential$ .

### 12.4. Mobility in soil:

CAS: 297730-93-9: Is expected to adsorb to soil particles and have relatively low mobility in soil.

# 12.5. Results of PBT and vPvB assessment:

3-ethoxy-1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane (CAS:297730-93-9) is under assessment as PBT/vPvB.

### 12.6. Endocrine disrupting properties:

None known.

#### 12.7. Other adverse effects:

None known.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods:

The mixture is to be considered as <u>hazardous</u> waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code: 16 05 08 (mixture itself); 15 02 02 (paper towel, inert material etc. contaminated with the mixture)

# **SECTION 14: Transport information**

Not dangerous goods (ADR/RID/IMDG/IATA).

14.1. UN number or ID number: None.

14.2. UN proper shipping name: None.

14.3. Transport hazard class(es): None.

14.4. Packing group: None.

14.5. Environmental hazards: No.

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

# **SECTION 15: Regulatory information**

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

None

### 15.2. Chemical safety assessment:

No CSR.

# **SECTION 16: Other information**

# Hazard statements mentioned in section 2 and 3:

H413: May cause long lasting harmful effects to aquatic life.

#### **Abbreviations:**

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

 $EC_{50}$  = Effect Concentration 50%

FW = Fresh Water

 $LC_{50}$  = Lethal Concentration 50%

LD<sub>50</sub> = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

#### Literature:

ECHA = European Chemicals Agency

EPA Ecotox = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.

IUCLID = International Uniform ChemicaL Information Database.

RTECS = Register of Toxic Effects of Chemical Substances

### Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

# Other information:

Prepared based on the information available to Altox A/S at the revision date.

### Changes since the previous edition:

Not relevant – first edition

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