

## SAFETY DATA SHEET

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

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


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**1.1. Product identifier:**

DE20 sort control droplets 4 lanes

**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](mailto:rsh@samplix.com)

**1.4. Emergency telephone number:**

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

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**SECTION 2: Hazards identification**


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**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.

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


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**3.2. Mixtures:**

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.no.	Classification
30-40	3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane	297730-93-9	435-790-1	603-224-00-2	01-0000018188-64	Aquatic Chronic 4;H413

Wording of hazard statements - see section 16.

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**SECTION 4: First-aid measures**


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**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.

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**SECTION 5: Firefighting measures**


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**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.

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**SECTION 6: Accidental release measures**


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**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 erial 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.

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**SECTION 7: Handling and storage**


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**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.

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


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**8.1. Control parameters:**

Occupational exposure limits: None

<b>DNEL:</b>	<b>Exposure</b>	<b>Value</b>	<b>Population</b>	<b>Effects</b>
CAS: 297730-93-9	Long term - inhalation	1135 mg/m <sup>3</sup>	Workers	Systemic
	Long term - skin	3.3 mg/kg/d	Workers	Systemic
	Long term - inhalation	282 mg/m <sup>3</sup>	Consumer	Systemic
	Long term - skin	1.7 mg/kg/d	Consumer	Systemic
	Long term - ingestion	1.7 mg/kg/d	Consumer	Systemic
<b>PNEC:</b>	<b>Medium</b>	<b>Value</b>		
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.

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**SECTION 9: Physical and chemical properties**


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

Physical state:	Liquid
Colour:	Colourless
Odour:	No odour
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	~ 100
Flammability (solid, gas):	Not relevant
Lower and upper explosion limit (vol-%):	Not relevant
Flash point (°C):	> 100 (COC)
Auto-ignition temperature (°C):	Not relevant
Decomposition temperature (°C):	Not relevant
pH:	Neutral
Kinematic viscosity:	Not relevant
Solubility:	Soluble in water
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density:	> 1.0
Relative vapour density:	Not determined
Particle characteristics:	Not determined
<b>9.2. Other information:</b>	None relevant.

## 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:

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 photolysprodukt)	OECD 202 (FW)	ECHA
Algae	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: logK<sub>ow</sub> = 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-1,1,1,2,3,4,4,5,5,6,6-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.

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods:**

The mixture is to be considered as hazardous 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)

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**SECTION 14: Transport information**

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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.

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**SECTION 15: Regulatory information**

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

None

**15.2. Chemical safety assessment:**

No CSR.

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**SECTION 16: Other information**

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**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<sub>50</sub> = Effect Concentration 50%

FW = Fresh Water

LC<sub>50</sub> = 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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