


## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name: FYRQUEL 220 MLT**
- **Manufacturer/Supplier:**  
Supresta Netherlands B.V.  
Office Park De Hoef  
Hoefseweg 1  
3821 AE Amersfoort  
The Netherlands  
Tel: +31 33 45 34575  
Fax: +31 33 45 34578
- **Information in case of emergency:**  
+32 (0) 3 575 5555  
SGS

## 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Butylated triphenyl phosphate mixture

- **Dangerous components:**

CAS: 115-86-6	Triphenyl phosphate	 N; R 50/53	15-25%
EINECS: 204-112-2			

- **Additional information:**  
For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:**  
N Dangerous for the environment
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 4 First aid measures

- **General information:**  
Always seek medical advice in case of significant exposure
- **Inhalation:**  
Move to fresh air, rest, half upright position, loosen clothing  
Oxygen or artificial respiration if there is difficulty in breathing
- **Skin contact:**  
Wash immediately with soap and water

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Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse

- **Eye contact:**

Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice

- **Ingestion:**

Only when conscious, rinse mouth, give plenty of water to drink. DO NOT induce vomiting. Seek medical advice

- **Information for doctor:**

- **The following symptoms may occur:**

Skin:

Mildly irritating

Slightly irritating to eyes

Vapours/mist may irritate the respiratory tract

May cause cholinesterase inhibition

- **Treatment**

Should cholinesterase inhibition occur, atropine by injection is the antidote of choice

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**

waterspray

dry chemical powder

Foam

Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

- **Special hazards caused by the substance, its products of combustion or resulting gases:**

Does not present a serious fire hazard

If involved in a fire it may support combustion and may decompose to give off toxic materials

The product is selfextinguishing once the source of ignition is removed

Emits toxic fumes under fire conditions

- **Protective equipment:** Wear self contained breathing apparatus

## 6 Accidental release measures

- **Person-related safety precautions:** For personal protection see Section 8

- **Measures for environmental protection:**

Do not allow to enter drains or water courses

- **Measures for cleaning/collecting:**

Isolate spill area

Stop leakage if possible

Contain spill with earthen dike

Collect as much as possible in a clean container for (preferable) reuse or disposal

Mix the remainder with e.g. sand or sawdust and collect for disposal

Flush remainder with water

Do not wash residues into drains or other waterways

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**7 Handling and storage**

- **Handling:**
- **Information for safe handling:**  
The usual precautionary measures for handling chemicals should be observed.
- **Information about fire - and explosion protection:**  
Does not present a serious fire hazard
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool, well ventilated area  
Store in carbon steel and/or stainless steel
- **Information about storage in one common storage facility:**  
Keep away from food, drink and animal feedingstuffs  
Keep away from heat  
Store away from flammable substances.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:**  
Ensure good ventilation and local exhaustion of the working area
- **Ingredients with limit values that require monitoring at the workplace:**  
The following exposure limit(s) apply for

**115-86-6 Triphenyl phosphate (15-25%)**

WEL	Short-term value: 6 mg/m <sup>3</sup>
	Long-term value: 3 mg/m <sup>3</sup>

- **Additional information:**  
The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be observed
- **Respiratory protection:**  
In case of insufficient ventilation wear suitable respiratory equipment
- **Protection of hands:** Wear suitable protective gloves
- **Eye protection:** Wear safety goggles
- **Body protection:**  
The usual precautions for handling chemicals should be observed

**9 Physical and chemical properties**

- |                                     |                    |
|-------------------------------------|--------------------|
| • <b>Form:</b>                      | Liquid             |
| • <b>Colour:</b>                    | clear, transparent |
| • <b>Odour:</b>                     | odourless          |
| • <b>Change in condition</b>        |                    |
| <b>Melting point/Melting range:</b> | -18°C (Pour point) |
| <b>Boiling point/Boiling range:</b> | Undetermined.      |

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• <b>Flash point:</b>	246°C Pensky-Martens closed cup
• <b>Flammability (solid, gaseous):</b>	not determined
• <b>Ignition temperature:</b>	not determined
• <b>Self-igniting:</b>	Product is not selfigniting.
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.
• <b>Explosion limits:</b>	
Lower:	not applicable
• <b>Oxidizing properties</b>	not relevant
• <b>Density at 15°C:</b>	approx.1150 kg/m <sup>3</sup>
• <b>Bulk density:</b>	not applicable
• <b>Solubility in / Miscibility with water:</b>	<1 g/l

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
The product is stable  
Hydrolyses slowly under weak alkaline or acidic conditions  
Avoid elevated temperatures  
> 65°C
- **Materials to be avoided:**  
acids  
alkalies  
plastic
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**  
Phenol  
Phosphoric acids

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 3.1 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Mildly irritating
- **on the eye:** Mildly irritating
- **Other information (about experimental toxicology):**  
Ames test: Not Mutagenic  
in vitro cytogenetic test(in mouse lymphoma cells):Not Mutagenic
- **Additional toxicological information:** Not neurotoxic

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**12 Ecological information**

- **Information about elimination (persistence and degradability):**
- **Other information:** Readily biodegradable
- **Ecotoxicological effects:**

• **Acquatic toxicity:**

LC50 (96-hr) &gt; 2 mg/l (Oncorhynchus mykiss)

• **General notes:**

Do not allow product to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation**  
According to local regulations  
most probably controlled incineration  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
According to local regulations  
Please refer to your specific industry in the European Waste Catalogue

**14 Transport information**

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** M6
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label:** 90
- **Description of goods:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphate)

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes

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• **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphate)

• **Air transport ICAO-TI and IATA-DGR:**



• **ICAO/IATA Class:** 9  
 • **UN/ID Number:** 3082  
 • **Packaging group:** III  
 • **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphate)

### 15 Regulatory information

• **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals. The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

• **Code letter and hazard designation of product:**



N Dangerous for the environment

• **Hazard-determining components of labelling:**

Triphenyl phosphate

• **Risk phrases:**

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **Safety phrases:**

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant R-phrases**

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **Contact:**

Product Safety Department  
Tel: +31 33 4534583