

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

### 1.1 Product identifier

**Product name:** HUILE ESTER 215PZ (LT) 5402041P01B  
**UFI:** 3GPC-32VN-U008-M84D

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

**Identified uses:** Refrigeration Lubricants.  
**Uses advised against:** None identified.

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

#### Supplier

**Company Name:** LUBRIZOL FRANCE  
**Address:** 25 QUAI DE FRANCE  
CS 61062  
76173 ROUEN CEDEX, 76173  
FR  
**Telephone:** (33) 02.35.58.14.00  
**E-mail contact:** EUSDS@lubrizol.com {Lubrizol Safety Data Sheets can be obtained at  
www.mylubrizol.com}

### 1.4 Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1) 703 527 3887 OR WITHIN FRANCE  
09.75.18.14.07

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

#### Classification according to Regulation (EC) No 1272/2008 as amended.

Chronic hazards to the aquatic environment      Category 3      H412: Harmful to aquatic life with long lasting effects.

The full text for all H-phrases is displayed in section 16.

### 2.2 Label elements according to Regulation (EC) No 1272/2008 as amended

**Signal Words:** Not applicable

**Hazard Statement(s):** H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

**Prevention:** P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Supplemental label information**

Not applicable

**2.3 Other hazards:**

**Endocrine Disruption- Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine Disruption- Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

**3.2 Mixtures**

**Regulation No. 1272/2008.**

Chemical name	Concentration	EC No.	REACH Registration No.	M-Factor:	Notes
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	1 - 2.5%	215-548-8			

600, 700 and 900 ECHA List Numbers do not have any legal significance; rather they are purely technical identifiers and are displayed for informational purposes only.

**Classification Regulation No. 1272/2008.**

Chemical name	Classification	Notes
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Repr. 2; H361 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	

The full text for all H-phrases is displayed in section 16.

See Section 15 for Regulation (EC) No. 1907/2006 REACH Article 59(1). Candidate List (Substances of Very High Concern (SVHC))

**SECTION 4: First aid measures**

**General:** IF exposed or concerned: Get medical advice/attention.

**4.1 Description of first aid measures**

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin Contact:</b>	Take off contaminated clothing and wash before re-use. Wash with soap and water. If skin irritation occurs, get medical attention.
<b>Ingestion:</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	See section 11.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
<b>Hazards:</b>	No data available.
<b>Treatment:</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.
<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media:</b>	CO2, dry chemical, foam, water spray, water fog.
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2 Special hazards arising from the substance or mixture:</b>	A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.
<b>5.3 Advice for firefighters</b>	
<b>Special fire fighting procedures:</b>	No data available.
<b>Special protective equipment for fire-fighters:</b>	Recommend wearing self-contained breathing apparatus.

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	No data available.
<b>6.2 Environmental Precautions:</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
<b>6.3 Methods and material for containment and cleaning up:</b>	Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

**6.4 Reference to other sections:**

See sections 8 and 13 for additional information.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:**

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Observe good industrial hygiene practices. Provide adequate ventilation. Use personal protective equipment as required. Launder contaminated clothing before reuse. Avoid environmental contamination.

**Maximum Handling Temperature:**

Not determined.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store away from incompatible materials. See section 10 for incompatible materials.

**Maximum Storage Temperature:**

Not determined.

**7.3 Specific end use(s):**

End uses are listed in an attached exposure scenario when one is required.

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

**8.1 Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**DNEL-Values**

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	General population	Dermal	Systemic, long-term; 0.15 mg/kg	Repeated dose toxicity
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Workers	Dermal	Systemic, long-term; 0.41 mg/kg	Repeated dose toxicity
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	General population	Oral	Systemic, long-term; 0.02 mg/kg	Repeated dose toxicity

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Workers	Inhalation	Systemic, long-term; 0.18 mg/m3	Repeated dose toxicity
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	General population	Eyes	Local effect;	Low hazard (no threshold derived)
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	General population	Inhalation	Systemic, long-term; 0.03 mg/m3	Repeated dose toxicity

#### PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Predator	0.65 mg/kg	Oral
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Aquatic (marine water)	0 mg/l	
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Soil	1.01 mg/kg	

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Sewage treatment plant	100 mg/l	
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Sediment (freshwater)	2.05 mg/kg	
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Sediment (marine water)	0.205 mg/kg	
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	Aquatic (freshwater)	0.001 mg/l	

## 8.2 Exposure controls

### Appropriate engineering controls:

No special requirements under ordinary conditions of use and with adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### General information:

Please follow the recommended personal protective equipment (PPE) guidelines below and refer to the appropriate EN standard where applicable. Use personal protective equipment as required.

#### Eye/face protection:

If contact is likely, safety glasses with side shields are recommended. Eye protection should meet the standards set out in EN 166.

#### Skin protection

##### Hand Protection:

Rubber (natural, latex). Polyvinyl chloride (PVC). Nitrile.

- General:** Because specific work environments and material handling practices vary, safety procedures should be specific for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions. For typical use and handling of chemical substances, gloves should meet the standards set out in EN 374. For applications involving mechanical risks with potential for abrasion or puncture, the standards set out in EN 388 should be considered. For tasks involving thermal hazards, the standards set out in EN 407 should be considered.
- Break-through time:** Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type.  
For continuous contact, we suggest gloves with a minimum breakthrough time of 240 minutes, or > 480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to. For short-term, transient exposures and splash protection, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.
- Glove thickness:** For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.  
It is important to note that glove thickness is not the only predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.  
Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.  
Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, before being disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.
- Other:** Gloves, coveralls, apron, boots as necessary to minimize contact.

**Respiratory Protection:** A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Respiratory Protective Equipment (RPE) is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment.

Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Please refer to the relevant EN standards for the RPE selected.

**Hygiene measures:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Observe good industrial hygiene practices.

**Environmental Controls:** No data available.  
See section 6 for details.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless to yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	260 °C (Cleveland Open Cup)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative vapor density:</b>	No data available.
<b>Relative density:</b>	0.98 (20 °C)



**Solubility(ies)**

<b>Solubility in Water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	46 mm <sup>2</sup> /s (40 °C); 7.1 mm <sup>2</sup> /s (100 °C )
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>VOC Content:</b>	No data available.

**Particle characteristics**

<b>Particle Size:</b>	Not applicable
<b>Particle Size Distribution:</b>	Not applicable
<b>Specific surface area:</b>	Not applicable
<b>Surface charge/Zeta potential:</b>	Not applicable
<b>Assessment:</b>	Not applicable
<b>Shape:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Surface treatment:</b>	Not applicable

**Other information**

<b>Bulk density:</b>	8.22 lb/gal
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**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Will not occur.
<b>10.4 Conditions to avoid:</b>	None known.
<b>10.5 Incompatible Materials:</b>	Strong acids. Oxidizing agents. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

**SECTION 11: Toxicological information****Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Skin Contact:** Causes mild skin irritation.

**Eye contact:** No data available.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

Product: Not classified for acute toxicity based on available data. Ingestion of this material can result in neurotoxicity. Signs and symptoms include increased sweating of hands and feet, numbness, tingling and weakness in extremities, unsteady gait and decreased reflexes.

##### Dermal

Product: Not classified for acute toxicity based on available data. Skin absorption of components of this material will cause systemic effects; note toxicity in other sections.

##### Inhalation

Product: Not classified for acute toxicity based on available data. High concentrations may cause headaches, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, other central nervous system effects leading to visual impairment, respiratory failure, unconsciousness and death.

#### Skin Corrosion/Irritation:

Product: Remarks: Causes mild skin irritation. Prolonged or repeated contact may cause irritation.

#### Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

#### Respiratory sensitization:

No data available

#### Skin sensitization:

No data available

#### Specific Target Organ Toxicity - Single Exposure:

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate  
If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

#### Aspiration Hazard:

No data available

#### Other effects:

##### Chronic Effects

##### Carcinogenicity:

No data available

**Germ Cell Mutagenicity:**

No data available

**Reproductive toxicity:**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

Suspected of damaging fertility. This material has been shown to impair fertility and cause adverse reproductive effects in rats and mice.

**Specific Target Organ Toxicity - Repeated Exposure:**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

Repeated occupational exposure to tricresyl phosphate over a prolonged period of time may cause delayed neurotoxicity characterized by ataxia and tremors.

**11.2 Information on health hazards****Other hazards**

Product:

No data available.

**Endocrine Disruption**

Product:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**SECTION 12: Ecological information****12.1 Ecotoxicity****Fish**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

LC 50 (Rainbow Trout, 4 Days): 0.6 mg/l

**Aquatic Invertebrates**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

EC 50 (Water flea (Daphnia magna), 2 d): 0.146 mg/l

**Toxicity to Aquatic Plants**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

EC 50 (Alga, 3 Days): 0.4042 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

LC 50 (Sludge, 0.1 Days): &gt; 1,000 mg/l

**12.2 Persistence and Degradability****Biodegradation**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

OECD TG 301 D, 24.2 %, 28 d, Not readily degradable.

**BOD/COD Ratio**

No data available

**12.3 Bioaccumulative potential****Bioconcentration Factor (BCF)**

No data available

**Partition Coefficient n-octanol / water (log Kow)**

Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate &amp; 4-methylphenyl di-3-methylphenyl Phosphate &amp; tris(3-methylphenyl) phosphate

Log Kow: 5.93 (Measured)

**12.4 Mobility:**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Endocrine Disruption:**

Product:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

Product: Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

**Contaminated Packaging:** Container packaging may exhibit hazards.

## SECTION 14: Transport information

### ADR

Not regulated.

### IMDG

Not regulated.

### IATA

Not regulated.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

## SECTION 15: Regulatory information

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

#### EU Regulations

**EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I,**

#### **Controlled Substances:**

None present or none present in regulated quantities.

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:**

None present or none present in regulated quantities.

**EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended:**

None present or none present in regulated quantities.

**Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List:**

None present or none present in regulated quantities.

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**

None present or none present in regulated quantities.

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**

Chemical name	EC No.	Concentration
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	215-548-8	1.0 - 10%

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:**

None present or none present in regulated quantities.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:**

Chemical name	EC No.	Concentration
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	215-548-8	1.0 - 10%

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

None present or none present in regulated quantities.

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:**

None present or none present in regulated quantities.

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	EC No.	Concentration
Rxn mass of 3-methylphenyl di-4-methylphenyl Phosphate & 4-methylphenyl di-3-methylphenyl Phosphate & tris(3-methylphenyl) phosphate	215-548-8	1.0 - 10%

**Inventory Status****Australia (AIC)**

All components are in compliance with chemical notification requirements in Australia.

**Canada (DSL/NDSL)**

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

**China (IECSC)**

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

**European Union (REACH)**

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

**Great Britain (UK REACH)**

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

**Japan (ENCS)**

All components are in compliance with the Chemical Substances Control Law of Japan.

**Korea (ECL)**

All components are in compliance in Korea.

**New Zealand (NZIoC)**

All components are in compliance with chemical notification requirements in New Zealand.

**Philippines (PICCS)**

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

**Switzerland (SWISS)**

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

**Taiwan (TCSCA)**

All components of this product are listed on the Taiwan inventory.

**Turkey (KKDIK)**

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

**United States (TSCA)**

All substances contained in this product are listed on the TSCA inventory or are exempt.

*The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.*

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**Key literature references and sources for data:** Internal company data and other publically available resources.

**Wording of the H-statements in section 2 and 3:**

H361 Suspected of damaging fertility or the unborn child.  
H400 Very toxic to aquatic life.

H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Other information:**

**Abbreviations and acronyms:**

ACGIH – American Conference of Governmental Industrial Hygienist  
ADR - International Carriage of Dangerous Goods by Road  
AICS - Australian Inventory of Chemical Substances  
ATEmix - Acute Toxicity Estimate for the mixture  
BCF - Bio concentration factor  
DMSO - Dimethyl sulfoxide  
DSL - Domestic Substance List  
EC50 - Effective concentration that gives a response in 50% of the population  
ECHA - European Chemical Agency  
ECL - Existing Chemical List  
ENCS - Existing and New Chemical Substances  
EPA – Environmental Protection Agency  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IECSC - Inventory of Existing Chemical Substances  
IMDG - International Maritime Dangerous Goods  
IP 346 – A gravimetric assay used to determine the percentage weight of polycyclic aromatics in oil, via a DMSO extraction technique  
LC50 - Lethal concentration required to kill 50% of the population  
MARPOL - International Conventions for the Prevention of Pollution from Ships  
NDSL - Non Domestic Substance List  
NOAEC - No observed adverse effect concentration  
NOAEL - No observed adverse effect level  
NOEC - No observed effective concentration  
NTP - National Toxicology Program  
NZloc - New Zealand Inventory of chemicals  
OECD TG - Organization for Economic Cooperation and Development Test Guidelines  
OSHA – Occupational, Safety, and Health Administration  
PBT – Persistent bioaccumulative toxic chemical  
PEL – Permissible Exposure Level  
PICCS - Philippine Inventory of Chemicals and Chemical Substances  
PPE - Personal Protective Equipment  
PRTR - Pollutant Release and Transfer Register  
REACH - Registration, Evaluation, Authorization & restriction of Chemicals  
SVHC - Substance of Very High Concern  
SWISS - Switzerland chemical ordinance  
TCSCA - Toxic Chemical Substance Control Act  
TLV – Threshold Limit Value  
TSCA - Toxic Substances Control Act  
TWA – Time Weighted Average  
vPvB – very Persistent very Bioaccumulative

**Issue Date:** 28.12.2021



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