

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## RA! PE125 FT SM

Version	Revision Date:	SDS Number:	Date of last issue: 21.12.2023
1.5	26.01.2024	100000000071	Date of first issue: 13.01.2023

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

#### 1.1 Product identifier

Trade name : RA! PE125 FT SM

Product code : 00000000000014570  
14570

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

Use of the Sub- : Powder coating  
stance/Mixture

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

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CH-9201 Gossau SG  
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Farby KABE Polska Sp. z o.o. ul. Slaska 88, 40-742 Katowice tel. +48 32 204 64 60, fax +48 32 204  
64 66, (Bürozeiten),  
proszkowie@farbykabe.pl

#### 1.4 Emergency telephone number

Switzerland: Poisoning emergencies: Tox Info Suisse, telephone: +41 (0)44/251 66 66 or 145 (only within Switzerland)  
Germany: Poison Control Center Berlin: +49(0)30-19240  
Austria: Poison Control Center AKA Vienna: +43(0)1/4064343  
Poland: National Poison Information Center and Clinical Department of Toxicology: +48(42)6579900

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Serious eye damage, Category 1

H318: Causes serious eye damage.

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Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

- P201 Obtain special instructions before use.
- P261 Avoid breathing dust.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

#### Additional Labelling

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
	Not Assigned	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 2; H411	$\geq 3 - < 10$
3,9-bis(2,4-di-tert-butylphenoxy)- 2,4,8,10-tetraoxa-3,9- diphosphaspiro[5.5]undecane	26741-53-7 247-952-5	Aquatic Chronic 1; H410	$\geq 0,25 - < 1$
propylidynetrimethanol	77-99-6 201-074-9	Repr. 2; H361	$\geq 0,1 - < 1$
Substances with a workplace exposure limit :			
barium sulfate	7727-43-7 231-784-4		$\geq 1 - < 10$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

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In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

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Avoid dust formation.  
Avoid breathing dust.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the ap-  
plication area.  
Dispose of rinse water in accordance with local and national  
regulations.  
Persons susceptible to skin sensitisation problems or asthma,  
allergies, chronic or recurrent respiratory disease should not  
be employed in any process in which this mixture is being  
used.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation  
at places where dust is formed.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not  
eat or drink. When using do not smoke.

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

Requirements for storage areas and containers : Store between 5 and 25 °C in a dry, well ventilated place  
away from sources of heat, ignition and direct sunlight. Keep  
container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and  
kept upright to prevent leakage. Observe label precautions.  
Electrical installations / working materials must comply with  
the technological safety standards.

Further information on stor- age stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

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### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
barium sulfate	7727-43-7	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

#### Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Skin should be washed after contact. Use a high fat protective cream after cleaning skin.

Skin and body protection : Workers should wear antistatic footwear.  
Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

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(dust).  
Suitable respiratory equipment:  
Half mask with a particle filter P2 (EN 143)

Protective measures : Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: pigmented
Odour	: very faint
pH	: substance/mixture is non-soluble (in water)
Flash point	: Not applicable
Lower explosion limit / Lower flammability limit	: Lower explosion limit 50.000 - 90.000 mg/m3
Density	: 1,4638 g/cm3 (20 °C) Method: Calculated value
Solubility(ies) Water solubility	: insoluble

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.  
  
Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

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Materials to avoid : Not applicable

### 10.6 Hazardous decomposition products

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

:

Acute oral toxicity : LD50 (Rat): 300 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

#### **3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:**

Acute oral toxicity : LD50 (Rat): 5.580 mg/kg

#### **propylidynetrimethanol:**

Acute oral toxicity : LD50 (Rat): 14.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0,85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg

#### **barium sulfate:**

Acute oral toxicity : LD50 (Rat): > 15.000 mg/kg

#### **Skin corrosion/irritation**

Not classified based on available information.

#### Product:

Remarks : Extremely corrosive and destructive to tissue.



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### Components:

:

Result : Irritating to skin.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

:

Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Remarks : Causes sensitisation.

### Components:

:

Result : May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

### Components:

:

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

### **propylidynetrimethanol:**

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

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### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Components:

:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Aspiration toxicity

Not classified based on available information.

### Further information

### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

:

Toxicity to fish : LC50 (Fish): 8,8 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 81 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (algae): 2,72 mg/l  
plants Exposure time: 72 h

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### propylidynetrimethanol:

Toxicity to fish : LC50 (Fish): 14.400 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 13.000 mg/l  
aquatic invertebrates Exposure time: 48 h

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Toxicity to algae/aquatic plants : EC50 (algae): > 1.000 mg/l  
Exposure time: 72 h

### 12.2 Persistence and degradability

#### Components:

:

Biodegradability :  
Result: Not readily biodegradable.

#### **propylidynetrimethanol:**

Biodegradability :  
Result: Not readily biodegradable.

#### **barium sulfate:**

Biodegradability :  
Result: Not biodegradable

### 12.3 Bioaccumulative potential

#### Components:

:

Partition coefficient: n-octanol/water : log Pow: 0,650

#### **propylidynetrimethanol:**

Bioaccumulation : Bioconcentration factor (BCF): < 17,00

Partition coefficient: n-octanol/water : log Pow: -0,47 (26 °C)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### 12.6 Other adverse effects

#### Product:

- Endocrine disrupting potential : 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.
- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not dispose of with domestic refuse.  
Dispose of in accordance with local regulations.  
Refer to manufacturer/ supplier/ for information on disposal/ recovery/ recycling.  
The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.

## SECTION 14: Transport information

### 14.1 UN number

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- IATA : Not regulated as a dangerous good

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### 14.3 Transport hazard class(es)

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

### 14.4 Packing group

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks	:	Not classified as dangerous in the meaning of transport regulations.
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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-

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diphosphaspiro[5.5]undecane

E2

### The components of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.

Polyesterharz  
13463-67-7

Quaternary ammonium compounds, benzyl(hydrogenated  
tallow alkyl)dimethyl, stearates, salts with bentonite  
14808-60-7  
Limestone

ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

## 15.2 Chemical safety assessment

### SECTION 16: Other information

#### Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H361	:	Suspected of damaging fertility or the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361
Aquatic Chronic 3	H412

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## RA! PE125 FT SM

Version	Revision Date:	SDS Number:	Date of last issue: 21.12.2023
1.5	26.01.2024	100000000071	Date of first issue: 13.01.2023

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