

# PE50 RT M

Version	Revision Date:	SDS Number:	Date of last issue: 17.01.2023
1.1	22.03.2023	10000000221	Date of first issue: 17.01.2023

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

### 1.1 Product identifier

Trade name	:	PE50 RT M
Product code	:	000000000000011210 11210

### 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

Karl Bubenhofer AG Hirschenstrasse 26 CH-9201 Gossau SG Telefon: +41 (0)71/387 41 41, Telefax:+41 (0)71/387 41 51 Auskunftgebender Bereich (Bürozeiten): Verantwortliche Chemikalien-/Produktesicherheit, Dr. Christina Ott Telefon: +41 (0)71/387 41 35, Telefax: +41 (0)71/387 43 04 Email: regulatory@kabe-farben.ch Vertrieb Deutschland KABE Pulverlack Deutschland GmbH Sofienstrasse 36 D-76676 Graben-Neudorf Telefon: +49 (0)7255 99-161, Telefax: +49(0)7255 99-163 (Bürozeiten) • Vertrieb Österreich: KABE-Farben GmbH Langegasse 31 A-6850 Dornbirn Telefon (Bürozeiten): +43 (0)5572-21568, Telefax: +43 (0)5572-2094 • Vertrieb Polen: 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), proszkowe@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)

Long-term (chronic) aquatic hazard, Cat- H412: Harmful to aquatic life with long lasting ef-



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egory	3		fects	
2.2 Label o	elements			
	ling (REGULATION ( 720, and UK SI 2020/		72/2008) as	amended by GB-CLP Regulation, UK SI
Hazar	d statements	: H412	2 Harmful	to aquatic life with long lasting effects.
Preca	utionary statements	P273 Disp P501	osal:	ease to the environment. of contents/ container to an approved waste

### **Additional Labelling**

EUH212

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

### 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)
benzene-1,2,4,5-tetracarboxylic acid, compound with 4,5-dihydro-2-phenyl- 1H-imidazole (1:2)	54553-91-2 259-226-5	Acute Tox. 4; H302 Aquatic Chronic 2; H411	>= 2,5 - < 10
Castor oil, hydrogenated	8001-78-3		>= 1 - < 2,5
Substances with a workplace exposure	e limit :		
Limestone	1317-65-3 215-279-6		>= 20 - < 30
barium sulfate	7727-43-7 231-784-4		>= 1 - < 10
manganese ferrite black spinel	68186-94-7 269-056-3		>= 1 - < 10

For explanation of abbreviations see section 16.



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

4.1 Description of first aid me	asures
General advice	: Do not leave the victim unattended.
If inhaled	<ul> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	<ul> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>

### **4.2 Most important symptoms and effects, both acute and delayed** None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	e 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, prote Personal precautions		e equipment and emergency procedures Avoid dust formation.
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 co	ontai	nment 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.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	:	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.
Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Electrical installa- tions / 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			
Limestone	1317-65-3	TWA (inhalable dust)	10 mg/m3	GB EH40			
		TWA (Respirable dust)	4 mg/m3	GB EH40			
barium sulfate	7727-43-7	TWA (inhalable dust)	10 mg/m3	GB EH40			
		TWA (Respirable dust)	4 mg/m3	GB EH40			
manganese ferrite black spinel	68186-94-7	TWA (Fumes)	5 mg/m3 (Iron)	GB EH40			
		STEL (Fumes)	10 mg/m3 (Iron)	GB EH40			
		TWA (Inhalable)	0,2 mg/m3 (Manganese)	GB EH40			
		TWA (Respirable fraction)	0,05 mg/m3 (Manganese)	GB EH40			
		TWA (inhalable fraction)	0,2 mg/m3 (Manganese)	2017/164/EU			
	Further information: Indicative						
		TWA (Respirable fraction)	0,05 mg/m3 (Manganese)	2017/164/EU			
	Further inform	Further information: Indicative					

### 8.2 Exposure controls

# Personal protective equipmentEye/face protection:Eye/face protection:Hand protectionRemarks:The suitability for a specific workplace should be discussed<br/>with the producers of the protective gloves.Skin and body protection:Dust impervious protection according to the amount and concentration of the dangerous substance at the work place.

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

### 9.1 Information on basic physical and chemical properties

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



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Appe	arance	:	powder	
Colou	ır	:	pigmented	
Odou	r	:	very faint	
Flash	point	:	Not applicable	
	Lower explosion limit / Lower flammability limit		Lower explosion 50.000 - 90.000	
Densi	Density		2,0124 g/cm3 (2 Method: Calcula	
	Solubility(ies) Water solubility		insoluble	
9.2 Other	information			
No data available				

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

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:

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Acute	oral toxicity		: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method			
<u>Comp</u>	oonents:					
benze (1:2):	ene-1,2,4,5-tetracarb	oxylic acid, compou	nd with 4,5-dihydro-2-phenyl-1H-imidazole			
• •	oral toxicity	: LD50 (Rat): 98	30 mg/kg			
		Assessment: single ingestion	The component/mixture is moderately toxic aften n.			
Acute	dermal toxicity	: LD50 (Rat): >	2.000 mg/kg			
Casto	or oil, hydrogenated	:				
Acute	oral toxicity	: LD50 (Rat): >	5.000 mg/kg			
Acute	dermal toxicity	: LD50 (Rat): >	2.000 mg/kg			
Limes	stone:					
Acute	oral toxicity	: LD50 (Rat): >	5.000 mg/kg			
bariu	m sulfate:					
Acute	oral toxicity	: LD50 (Rat): >	15.000 mg/kg			
mang	anese ferrite black	spinel:				
Acute	oral toxicity	: LD50 (Rat): >	10.000 mg/kg			
Skin	corrosion/irritation					
	assified based on ava					
	us eye damage/eye					
	assified based on available					
-	iratory or skin sensi	lisation				
	sensitisation					
	assified based on ava					
-	iratory sensitisation assified based on ava					
	cell mutagenicity assified based on ava	ailable information.				
Carci	nogenicity					
Not cl	assified based on ava	ailable information.				
Repro	oductive toxicity					
Not d	assified based on ava	ailable information				

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	- single exposure assified based on ava		

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### **Further information**

### Product:

Remarks

: No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

benzene-1,2,4,5-tetracarboxylic acid, compound with 4,5-dihydro-2-phenyl-1H-imidazole (1:2):				
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 37 mg/l Exposure time: 48 h		
Toxicity to algae/aquatic plants	:	EC50 (algae): 7,4 mg/l Exposure time: 72 h		
Ecotoxicology Assessment				
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.		
Castor oil, hydrogenated:				
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h		
Ecotoxicology Assessment				
Chronic aquatic toxicity	:	Toxic effects cannot be excluded		
Limestone:				
Toxicity to fish	:	LC50 (Fish): > 10.000 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 1.000 mg/l Exposure time: 48 h		
Toxicity to algae/aquatic	:	EC50 (algae): > 200 mg/l		

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plants	3	Exposure time	e: 72 h
12.2 Persi	stence and degradab	bility	
<u>Com</u>	ponents:		
benzo (1:2):		oxylic acid, compou	und with 4,5-dihydro-2-phenyl-1H-imidazole
Biode	egradability	:	
		Result: Not re	adily biodegradable.
Casto	or oil, hydrogenated:		
	egradability	: Result: Readi	ly biodegradable.
Lime	stone:		
Biode	egradability	:	
		Result: Not bi	odegradable
bariu	m sulfate:		
Biode	egradability	:	
		Result: Not bi	odegradable
12.3 Bioa	ccumulative potentia	l	
<u>Com</u>	ponents:		
benz (1:2):		oxylic acid, compo	und with 4,5-dihydro-2-phenyl-1H-imidazole
	ion coefficient: n- ol/water	: log Pow: 6,45	0
Casto	or oil, hydrogenated:		
	ion coefficient: n- ol/water	: log Pow: 18,7	750
Lime	stone:		
	ion coefficient: n- ol/water	: log Pow: < 1,0	000
12.4 Mobi	lity in soil		
No da	ata available		
12.5 Resu	Its of PBT and vPvB	assessment	
Prod	uct:		

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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.		
12.6 Other adverse effects					
E	Produc	<u>ot:</u>			
Endocrine disrupting poten- tial		:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.	
Additional ecological infor- mation		:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. c life with long lasting effects.	

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	The product should not be allowed to enter drains, we courses or the soil. Do not contaminate ponds, waterways or ditches with cal 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.	

### **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
ΙΑΤΑ	:	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
ΙΑΤΑ	:	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	a dangerous good			
IMDG		:	Not regulated as a	a dangerous good			
ΙΑΤΑ		:	Not regulated as a	a dangerous good			
14.4 Packing group							
ADR		:	Not regulated as	a dangerous good			
RID	RID		: Not regulated as a dangerous good				
IMDG		:	Not regulated as a	a dangerous good			
ΙΑΤΑ	Cargo)	:	Not regulated as a	a dangerous good			
ΙΑΤΑ	Passenger)	:	Not regulated as a	a dangerous good			
14.5 Envire	onmental hazards						
Not regulated as a dangerous good							
14.6 Special processions for user							

### 14.6 Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

### 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)	:	Banned and/or restricted
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	:	benzene-1,2,4,5-tetracarboxylic acid, compound with 4,5-dihydro-2- phenyl-1H-imidazole (1:2)



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### 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.	
		Polyester resin Titanium dioxide (> 10 μm) Castor oil, hydrogenated 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** 

11000	
H302	: Harmful if swallowed.
H411	: Toxic to aquatic life with long lasting effects.
Full text of other abbrev	iations
Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / TWA	: Limit Value - eight hours
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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:		Classification procedure:	
Aquatic Chronic 3	H412	Calculation method	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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