

PE50 MET S SM

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2023
1.2	24.03.2023	10000000236	Date of first issue: 16.01.2023

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

1.1 Product identifier

Trade name:PE50 MET S SMProduct code:00000000000012057
12057

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-

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



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egory	3			fects.	
2.2 Label e	elements				
	ling (REGULATION (720, and UK SI 2020/			2/2008) as a	amended by GB-CLP Regulation, UK SI
Hazar	d statements	:	H412	Harmful to	aquatic life with long lasting effects.
Preca	utionary statements	:	Prevei	ntion:	
			P273	Avoid rele	ase to the environment.
			Dispo	sal:	
			P501 dispos	Dispose o al plant.	f contents/ container to an approved waste

Additional Labelling

EUH208	Contains zinc di (benzothiazol-2-yl) disulphide, benzothiazole-2-thiol.
	May produce an allergic reaction.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe

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

dust.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
zinc di(benzothiazol-2-yl) disulphide	155-04-4 205-840-3	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
benzothiazole-2-thiol	149-30-4 205-736-8 613-108-00-3	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25

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			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1
Subst	ances with a workpla	ce exposure limit :	
Limes	tone	1317-65-3 215-279-6	

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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
lf inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Flush eyes with water as a precaution. 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 give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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	:	High volume water jet
media		

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5.2 Special hazards arising from the substance or mixture

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Use personal protective equipment. 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.
moundae for creating up		ricop in calcable, cloced containere for alepecan

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		void formation of respirable particles. o not breathe vapours/dust.
		void exposure - obtain special instructions before use.
	A	void contact with skin and eyes.
	F	or personal protection see section 8.
		moking, eating and drinking should be prohibited in the ap- ication area.
		ispose of rinse water in accordance with local and national gulations.
	al	ersons susceptible to skin sensitisation problems or asthma, lergies, chronic or recurrent respiratory disease should not
	De	e employed in any process in which this mixture is being

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			used.				
	Advice on protection against fire and explosion		: Avoid dust formation. Provide appropriate exhaust ventila at places where dust is formed.				
H	Hygiene measures		Wash hands befo	re breaks and at the end of workday.			
7.2 Co	nditions for safe storage	, inclu	iding any incom	patibilities			
	equirements for storage eas and containers	:	place. Containers sealed and kept u	ghtly closed in a dry and well-ventilated which are opened must be carefully re- pright to prevent leakage. Electrical installa- aterials must comply with the technological			
	urther information on stor- ge stability		Keep in a dry plac No decompositior	ce. In if stored and applied as directed.			

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	10 mg/m3	GB EH40
		dust)		
		TWA (Respirable	4 mg/m3	GB EH40
		dust)		

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Hand protection		
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Dust impervious protective suit Choose body protection according to the amount and concen- tration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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	Appear	ance	:	powder	
	Colour		:	pigmented	
	Odour		:	very faint	
	Flash p	point	:	Not applicable	
		explosion limit / Lower ability limit	:	Lower explosion 50.000 - 90.000	
	Density	/	:	1,8278 g/cm3 (2 Method: Calcula	
	Solubili Wat	ity(ies) er solubility	:	insoluble	
9.2 (Other ir	oformation			
	No data	a available			

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
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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.

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<u>Com</u>	ponents:			
zinc	di(benzothiazol-2-yl)	disul	ohide:	
Acute	e oral toxicity	:	LD50 (Rat): 7.5	500 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 7.940 mg/kg
benz	othiazole-2-thiol:			
Acute	e oral toxicity	:	LD50 (Rat): 3.8	300 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 7 Exposure time: Test atmosphe	: 4 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 7.940 mg/kg
Lime	stone:			
Acute	e oral toxicity	:	LD50 (Rat): > \$	5.000 mg/kg
-	corrosion/irritation lassified based on ava	ailable	information.	
Prod	uct:			
Rema	arks	:	May cause skir	n irritation and/or dermatitis.
Serio	ous eye damage/eye	irritati	on	
Not o	lassified based on ava	ailable	information.	
NOT C				
Prod	uct:			
	uct:	:	Product dust m system.	ay be irritating to eyes, skin and respirato
Prod Rema	uct:	: tisatio	system.	ay be irritating to eyes, skin and respirato
Produ Rema Resp	<u>uct:</u> arks	: tisatic	system.	ay be irritating to eyes, skin and respirato
Prode Rema Resp Skin	<u>uct:</u> arks iratory or skin sensi		system. on	ay be irritating to eyes, skin and respirato
Produ Rema Resp Skin Not c	uct: arks iratory or skin sensi sensitisation	ailable	system. on	ay be irritating to eyes, skin and respirato
Prode Rema Resp Skin Not c Resp	uct: arks iratory or skin sensi sensitisation lassified based on ava	ailable	system. on information.	ay be irritating to eyes, skin and respirato
Prode Rema Resp Skin Not c Resp	uct: arks iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava	ailable	system. on information.	ay be irritating to eyes, skin and respirato
Prode Rema Resp Skin Not c Resp Not c	uct: arks iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava	ailable	system. on information.	
Prode Rema Resp Skin Not c Resp Not c Prode Rema	uct: arks iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava	ailable	system.	
Prode Rema Resp Skin Not c Resp Not c Prode Rema Com	uct: arks iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava uct: arks	ailable ailable :	system. n information. information. Causes sensiti	ay be irritating to eyes, skin and respirato

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Germ	cell mutagenicity										
Not cl	Not classified based on available information.										
Carci	nogenicity										
Not cl	assified based on ava	ailable information.									
Repro	oductive toxicity										
Not cl	assified based on ava	ailable information.									
STOT	STOT - single exposure										
Not cl	Not classified based on available information.										
STOT	STOT - repeated exposure										
Not cl	assified based on ava	ailable information.									
Aspir	ation toxicity										
Not cl	assified based on ava	ailable information.									
Furth	Further information										
<u>Produ</u>	<u>uct:</u>										
Rema	arks	: No data availat	ble								

SECTION 12: Ecological information

12.1 Toxicity

Components:

zinc di(benzothiazol-2-yl) disulphide:

Toxicity to fish	:	LC50 (Fish): 0,73 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 0,71 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): 0,5 mg/l Exposure time: 72 h
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
benzothiazole-2-thiol:		
Toxicity to fish	:	LC50 (Fish): 0,73 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 0,71 mg/l Exposure time: 48 h
Toxicity to algae/aquatic	:	EC50 (algae): 0,5 mg/l

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plants			Exposure time: 72	2 h
M-Factor icity)	r (Acute aquatic tox-	:	1	
M-Factor toxicity)	r (Chronic aquatic	:	1	
Limesto	ne:			
Toxicity 1	to fish	:	LC50 (Fish): > 10 Exposure time: 96	
	to daphnia and other nvertebrates	:	EC50 (Daphnia (v Exposure time: 48	vater flea)): > 1.000 mg/l 3 h
Toxicity t plants	to algae/aquatic	:	EC50 (algae): > 2 Exposure time: 72	
12.2 Persiste	ence and degradabil	ity		
<u>Compor</u>	nents:			
zinc di(b Biodegra	benzothiazol-2-yl) di adability	sulı :	ohide:	
			Result: Not biode	gradable
benzoth Biodegra	iazole-2-thiol: adability	:		
			Result: Not readily	y biodegradable.
Limesto Biodegra		:		
			Result: Not biode	gradable
12.3 Bioaccu	imulative potential			
<u>Compor</u>	nents:			
zinc di(k Bioaccur	penzothiazol-2-yl) di mulation	sulı :		factor (BCF): < 8,00
Partition octanol/v	coefficient: n- vater	:	log Pow: 5,020	
benzoth	iazole-2-thiol:			
Bioaccur	nulation	:	Bioconcentration	factor (BCF): < 8,00
			9 / 14	

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	Partitio octanol	n coefficient: n- /water	:	log Pow: 2,420	
	Limest Partitio octanol	n coefficient: n-	:	log Pow: < 1,000	
	No data	t y in soil a available			
12.	5 Result	s of PBT and vPvB as	sse	ssment	
	Produc	<u>>t:</u>			
	Assess	ment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ad very bioaccumulative (vPvB) at levels of
12.0	6 Other a	adverse effects			
	Produc	<u>::</u>			
	Endocr tial	ine disrupting poten-	:	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.
	Addition mation	nal ecological infor-	:	unprofessional ha	hazard cannot be excluded in the event of indling 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, 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.

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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		
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		
	ΙΑΤΑ	:	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.		

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

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	UK REACH List of restrictions (Annex 17)					:	Conditions of restriction for the fol- lowing entries should be considered: 1-methoxy-2-propanol (Number on list 3)
	UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation				ו	:	Not applicable
	The Persistent Organic Pollutants Regulations (retain Regulation (EU) 2019/1021 as amended for Great Bri ain)					:	Not applicable
	Regulation (EC) No 1005/2009 on substances that de				e-	:	Not applicable
	UK REACH List of substances subject to authorisation (Annex XIV)				on	:	Not applicable
	GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation				r	:	zinc di(benzothiazol-2-yl) disulphide benzothiazole-2-thiol
	Control of Major Accident Hazards Regulations 2015 (COMAH)					Not	applicable
	The co TCSI	mponents of this pro	duc	t are reported in t Not in compliance			-
			•				-
	TSCA		:				e(s) not listed on TSCA inventory.
	AIIC		:	Not in compliance	with	the	inventory
	DSL		:	This product conta on the Canadian I			ollowing components that are not NDSL.
				Polyester resin Titanium dioxide (Acrylatpolymer Glimmer, beschick Limestone		µm))
	ENCS		:	Not in compliance	with	n the	inventory
	ISHL		:	Not in compliance	with	n the	inventory
	KECI		:	Not in compliance	with	n the	inventory
	PICCS		:	Not in compliance	with	n the	inventory
	IECSC		:	Not in compliance	with	n the	inventory
	NZIoC		:	Not in compliance	with	n the	inventory
	TECI : Not in compliance			with	n the	inventory	

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15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

		May cause an allergic skin reaction. Very toxic to aquatic life.			
H410	:	Very toxic to aquatic life with long lasting effects.			
Full text of other abbreviations					
Aquatic Acute	:	Short-term (acute) aquatic hazard			

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Skin Sens.	: Skin sensitisation
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; 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

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Class	sification of the mixt	ure:	Classification procedure:	
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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.

GB / 6N