According to regulation (EC) No. 1907/2006 (REACH)

47250 Furnace Black

Safety designation:



			Page	1
Revised	edition: 19.01.2018	Version: 4.0	Printed:	14.02.2023
1.	Identification of the Substance/M	ixture and of the Company/Undertak	ing	
1. 1.	Product Identifier			
	Product Name:	Furnace Black		
	Article No.:	47250		
	UFI:			
1. 2.	Relevant identified Uses of the Substance or	Mixture and Uses advised against		
	ldentified uses:	Colored printing inks Varnishes Plastics Special applications Pigment Conductivity Reaction media		
	Uses advised against:	Tattoo		
1. 3.	Details of the Supplier of the Safety Data She			
	Company:	Kremer Pigmente GmbH & Co. KG		
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Gerr	nany	
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 160	6	
	Internet:	www.kremer-pigmente.com		
	EMail:	info@kremer-pigmente.com		
	Importer:			
1. 4.	Emergency No.			
	Emergency No.:	+49 7565 914480 (Mon-Fri 8:00 - 17:00)		
1. 4. 2	Poison Center:			
2.	Hazards Identification			
2. 1.	Classification of the Substance or Mixture			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product does not require classification hazardous according to CLP/GHS.	on and labellii	ng as
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product does not require classification hazardous according to CLP/GHS.	on and labellii	ng as
	Hazard designation:			
	Signal word:			
	Hazard designation:			

According to regulation (EC) No. 1907/2006 (REACH)



4725	0 Furnace Black		PIGMENTE
			Page 2
Revised	d edition: 19.01.2018	Version: 4.0	Printed: 14.02.2023
	Hazardous components for labelling:		
2. 3.	Other Hazards		
3.	Composition/Information on Ing	redients	
3. 1.	Substance		
3. 2.	Mixture		
	Chemical Characterization:	Amorphous carbon bla	ack. Pigment Black 7, C.I. 77266
	Information on Components / Hazardo Ingredients:	bus	
	Carbon Black, amorphous; REACH-N 2119384822-32-0032	r. 01- 100 %	CAS-Nr: 1333-86-4 EINECS-Nr: 215-609-9 EC-Nr:
	Additional information:		
4.	First Aid Measures		
4. 1.	Description of the First Aid Measures		
	General information:		
		Seek medical attention	n in case of complaints.
	After inhalation:		
		Supply fresh air. Cons	ult physician if symptoms persist.
	After skin contact:		
		Wash with soap and ri	nse with plenty of water.
	After eye contact:		
		Seek medical attention	plenty of water for at least 15 minutes.
	After ingestion:		
	Aller ingestion.	Rinse mouth with plen	tv of water.
		If symptoms persist co	-
4. 2.	Most important Symptoms and Effects, both	th Acute and Delayed	
	Symptoms:		
		Inhalation: coughing, s	neezing.
	Effects:		
4. 3.	Indication of any Immediate Medical Attent	tion and special Treatment nee	eded
	Treatment:		
		After swallowing larger	r amounts of product: give active coal.
5.	Fire-Fighting Measures		
5. 1.	Extinguishing Media		
	Suitable extinguishing media:		
		All extinguishing agent	ts suitable.
	Unsuitable extinguishing media:		
		Water with full jet.	

According to regulation (EC) No. 1907/2006 (REACH)



Revise	d edition: 19.01.2018	Version: 4.0	Page 3 Printed: 14.02.2023		
5. 2.	Special Hazards arising from the Substance	e or Mixture			
	Special hazards:				
		In case of fire: formation of carbon of or	xides, sulfur oxides and		
5. 3.	Advice for Firefighters				
	Protective equipment:				
		Wear self-contained respiratory prote	ective device.		
	Further information:				
		Avoid contamination of sewage syste ground water.	em, open water ways and		
		Contaminated extinguishing water an of according to local regulations.	nd debris should be disposed		
6.	Accidential Release Measures				
6. 1.	Personal Precautions, Protective Equipmen	t and Emergency Procedures			
	Personal precautions:				
		Wear protective clothing.			
		Avoid formation of dust.	<i></i>		
C D		Together with water product causes	slippery surfaces.		
6. 2.	Environmental Precautions				
	Environmental precautions:	Prevent contamination of soils, drain	s and surface water		
6. 3.	Methods and Material for Containment and Cleaning Up				
	Methods and material:				
		Take up mechanically and collect in disposal. Avoid dust formation.	suitable containers for		
6. 4.	Reference to other Sections				
		See Section 13 for information on dis	sposal.		
7.	Handling and Storage				
7. 1.	Precautions for Safe Handling				
	Instructions on safe handling:				
		Avoid formation and deposition of du ventilation.	ıst. Provide adequate		
	Hygienic measures:				
		Do not eat or drink during work. Do r Avoid contact with skin, eyes and clo Wash hands before breaks and after	othing. Do not inhale dust.		
7. 2 .	Conditions for Safe Storage, including any	Incompatibilities			
	Storage conditions:				
	-	Store in closed container and keep p	product dry.		
		Keep away from ignitable sources, h	eat and fire.		
	Requirements for storage areas and containers:				
		Store product in correctly labelled co	ontainers		

According to regulation (EC) No. 1907/2006 (REACH)

KREMER

47250	Furnace Black		PIGMENTE
			Page 4
Revised	edition: 19.01.2018	Version: 4.0	Printed: 14.02.2023
	Information on fire and explosion protection:		
		Keep away from sources of igniti	
		measures to prevent electrostation Do not store together with: strong	-
		Do not store together with flamm	-
		Carbon monoxide can be formed ventilated storage rooms.	in closed containers or not well
			in the manufacturing facility (e.g.
		welding), the area has to be com Dust explosion class 1 (Kst-value	
		Max. pressure increase: 30 - 100	,
	Storage class:		
	Further Information:		
7. 3.	Specific End Use(s)		
	Further information:		
		See Section 1.2.; no other uses p	provided
8.	Exposure Controls/Personal Pro	otection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):		
		none known	
	Parameters to be controlled:	Oarthan Black amarinhave (OAO	4222 0C 4) TIMA (inholohia
		Carbon Black, amorphous (CAS fraction): 3.5 mg/m3 (EH40 WEL mg/m3 (EH40 WEL)	
	Derived No-Effect Level (DNEL):		
		Carbon black, amorphous (1333-	-86-4):
		2 mg/m3 (worker, inhalation) 0.5 mg/m3 (worker, inhalation, lo	na-term exposition - systemic
		effects)	
	Predicted No-Effect Concentration (PNEC):		
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Adequate ventilation to control ai exposure limits.	rborne concentrations below the
	Personal Protection		
	General protective measures:		
		Avoid contact with skin and avoid drink or smoke while working.	l inhalation of vapour. Do not eat,
		Preventive skin protection by app	olying protective cream.
	Respiratory protection:	, , ,	
	·····	Dust mask recommended when	very dusty: with particle filter P2. next page: 5

According to regulation (EC) No. 1907/2006 (REACH)

47250 Furnace Black



5

Page

			гаус
Revise	d edition: 19.01.2018	Version: 4.0	Printed: 14.02.202
	Hand protection:		
		Protective gloves	
	Protective glove material:	Notural rubbar (ND) palavinut	ablarida (DVC) nitrila rubbar (NDD
	E	Natural Tubber (NR), polyvinyi (chloride (PVC), nitrile rubber (NBR
	Eye protection:	Safety glasses with protective s	shields (EN 166).
	Body protection:	, , , , , , , , , , , , , , , , , , ,	
		Not required.	
	Environmental precautions:		
		Suppress dust with a water spr	ray jet.
9.	Physical and Chemical Prope	rties	
9. 1.	Information on Basic Physical and Che	mical Properties	
	Form:	powder	
	Color:	black	
	Odor:	odorless	
	Odor threshold:		
		no information available	
	pH-Value:	> 6.5 (50 g/l; 20°C)	
	Melting temperature:	> 3000°C	
	Boiling temperature:	> 3000°C	
	Flash point:		
		not applicable	
	Evaporation rate:	not oppliaable	
	Flowman ility (aplied spar);	not applicable	
	Flammability (solid, gas):	> 45 s / > 300°C (VDI 2263)	
	Upper explosion limit:	not determined	
	Lower explosion limit:	50 g/m3 (VDI 2263)	
	Vapor pressure:	00 g///0 (121 2200)	
		not applicable	
	Vapor density:		
		No information available.	
	Density:	1.7 - 1.9 g/cm3 (20°C)	
	Solubility in water:	insoluble	
	Coefficient of variation (n-		
	Octanol/Water):	not applicable	
	Auto-ignition temperature:	> 140°C	
	Decomposition temperature:	> 400°C (VDI 2263)	next page:

According to regulation (EC) No. 1907/2006 (REACH)



Revise	d edition: 19.01.2018	Version: 4.0	Page Printed: 14.02.2
	Viscosity, dynamic:		
		not applicable	
	Explosive properties:		
		Product is not explosive; however, an can be formed.	explosive dust/air mixtur
	Oxidizing properties:		
		no information available	
	Bulk density:	80 - 220 kg/m3	
. 2.	Further Information		
	Solubility in solvents:		
	Viscosity, kinematic:		
	Burning class:		
	Solvent content:		
	Solid content:		
	Particle size:		
	Other information:		
		Maximum explosion pressure: 10 bar	(VDI 2263)
		Dust explosion class: ST1	0 horm/o
		Dust deflagration index (Kst): 30 - 100 Impact sensitivity: no impact sensitive	
		Minimum ignition energy: > 1 kJ	
		Minimal ignition temperature: >600°C	;
0.	Stability and Reactivity		
0.1.	Reactivity		
		Stable if used according to specification	ons.
0.2.	Chemical Stability	Stable if used according to specification	ons.
0.3.	Possibility of Hazardous Reactions		
	,	The product is not dust explosive whe accumulation of fine dust can howeve explosion.	
		Hazardous polymerisation will not occ	cur.
0.4.	Conditions to Avoid		
	Conditions to avoid:		
		Avoid heat and sources of ignition.	
	Thermal decomposition:	(
0 F		> 400°C	
0.5.	Imcompatible Materials	Strong oxidizing agents.	
0.6.	Hazardous Decomposition Products		
- *	· · · · · · · · · · · · · · · · · · ·	In case of fire: formation of carbon ox decomposition and sulfoxides.	ides, organic products of

According to regulation (EC) No. 1907/2006 (REACH)

47250 Furnace Black



Page 7

Revise	d edition: 19.01.2018	Version: 4.0	Printed: 14.02.2023
10.7.	Further Information		
11.	Toxicological Information		
11. 1.	Information on Hazard Classes as	defined in Regulation (EC) No. 1272/2008	
	Acute Toxicity		
	LD50, oral:	> 8000 mg/kg (rat; OECD 401)	
	LD50, dermal:		
		No information available.	
	LC50, inhalation:		
		No information available.	
	Primary effects		
	Irritant effect on skin:		
		Non irritating (rabbit; OECD 40	4)
	Irritant effect on eyes:		
		Non-irritating to eyes (rabbit; O	ECD 405)
	Inhalation:	No information available.	
	Ingestion:		
	ingestion.	No information available	
	Sensitization:		
		Non sensitizing (guinea pig; OE	ECD 406).
	Mutagenicity:		
		In vitro genetic-toxicity:	
		Ames-Test: negative (DMSO si black).	uspension with industrial carbon
		Industrial carbon black cannot systems (insoluble inorganic co	be tested in bacterial and in vitro poppound).
			ustrial carbon black may contain /drocarbons (PAHs). This can resu sults in different in-vitro testing
	Reproductive toxicity:		
		Animal studies showed no adve	erse effect on the fertility.
	Carcinogenicity:		
		Oral, rat (2 years; feeding study	
		Oral, mouse (2 years; feeding s Dermal, mouse: 12-18 months;	
		tumors.	
		Evaluation: no tumors. Pat. mouse (2 years) Exposition	on: Overload Effect) Target argon
		lung. Effect: inflammation, fibro	on: Overload Effect). Target organ. sis, tumors.
		Target organ: lung. Effect: infla	mmation, hyperplasia, fibrosis.
	Teratogenicity:		
			

According to regulation (EC) No. 1907/2006 (REACH)

47250 Furnace Black



8

Page

Revise	d edition: 19.01.2018	Version: 4.0	Printed: 14.02.2023
	Specific target organ toxicity (STOT):		
		Single exposure: no organospe	ecific toxicity expected.
		Repeated exposure: no organo	specific toxicity expected.
	Aspiration hazard		
		No risk of aspiration.	
11. 2.	Information on other Hazards		
		Epidemiological and clinical stu health hazards in workers expo	idies did not show any significant osed to industrial carbon black.
		industrial carbon black.	served with workers exposed to
		inorganic particles (fine dust) -	halation toxicologists, the tumors s result from a species-specific
		to humans. The IARC, howeve	been found following the exposition r, assesses the present rat studies ant evidence for the cancerogenicity es.
		According to the IARC, there is effect of carbon black for huma carbon black: "probably carcing results from the IARC evaluation	ogenic to humans" (group 2B)
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:		
		LC50: > 1000 mg/l (96h, Danio	rerio: OECD 203)
		LC0: > 5000 mg/l (14d, Leuciso	
	Daphnia toxicity:		
	Daprina toxicity.	EC50: > 5600 mg/l (24h, Daphi	nia magna: OECD 202)
	Postorio tovicity:		
	Bacteria toxicity:	EC0: > 400 g/l (3h) DEV L3 (T	(C-Test)
		EC10: 800 g/l (3h) DEV L3 (TT	
	Algae toxicity:		,
	Aigae loxicity.	EC50: > 10000 ma/l (72h_Scer	nedesmus subspicatus; OECD 201)
		- · ·	enedesmus subspicatus; OECD
12. 2.	Persistency and Degradability		
		Pigment is not soluble in water	and biologically not degradable.
12. 3.	Bioaccumulation		
		Bioaccumulation is not to be ex	pected.
12. 4.	Mobility		
		Weak solubility and mobility.	
12. 5.	Results of PBT- und vPvP Assessment		
		Not classified as PBT substand substance.	e / Not classified as a vPvB
			nevt nage: 0

According to regulation (EC) No. 1907/2006 (REACH)



Revise	d edition: 19.01.2018	Version: 4.0	Page 9 Printed: 14.02.2023
12.6.	Endocrine Disrupting Properties		
		No data available.	
12.7.	Other Adverse Effects		
	Water hazard class:		
		Not hazardous.	
	Behaviour in sewage systems:		
	Further ecological effects:		
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
			lations, product may be taken to a on plant, after consultation with site sible authority.
	European Waste Code (EWC):		
		The waste code must be determ disposal service.	ined together with the regional
	Uncleaned packaging:		
		Non-contaminated packaging m Contaminated packaging must b	
	Waste Code No.:	Containinated packaging matter	
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		
		No hazardous goods according transportation).	to ADR / DOT (US) (land
	IMDG/IATA:		
		Not hazardous goods	
14. 3.	Transport Hazard Classes		
	ADR Class:	not applicable	
	Hazard no.:	ποι αρριταδίε	
	Classification code:		
	Tunnel restriction code:		
	IMDG Class (sea):	not applicable	
	Hazard no.:		
	EmS No.:		
			novt norge 10

According to regulation (EC) No. 1907/2006 (REACH)



			Page 10
Revise	d edition: 19.01.2018	Version: 4.0	Printed: 14.02.2023
	IATA Class:	not applicable	
	Hozord no :		
14. 4.	Hazard no.:		
14. 4.	Packaging Group		
	ADR/RID:	not applicable	
	IMDG:		
44 E	IATA:		
14. 5.	Environmental Hazards	None	
14. 6.	Special Precautions for User	Nono	
		Not classified as a dangerous	s good under transport regulations.
14. 7.	Maritime Transport in Bulk according to IMO I	nstruments	
		not applicable	
14. 8.	Further Information		
		Not activated carbon black of No hazardous goods of class	-
15.	Regulatory Information		
15. 1.	Safety, Health and Environmental Regulations	// egislation specific for the Subst	ance or Mixture
10. 1.	Water hazard class:	registation specific for the outst	
	water hazard class.	0, not hazardous (German Re	egulation: Self-assessment)
	Local regulations on chemical accidents:		. ,
	-		
	Employment restrictions:		
	Restriction and prohibition of application.		
	Technical instructions on air quality:		
15. 2.	Chemical Safety Assessment	A Chamical Safaty Assass	ent has been carried out for this
		product.	ent has been carried out for this
15. 3.	Further Information		
		Listed in the following invento	
			(US), AICS (AUS), DSL (CA), PICCS (PH), IECSC (CN), NZIoC W)
16.	Other Information		
		with good hygiene practices a regulations. This information present state of knowledge a from the point of view of safe	d, handled and used in accordance and in conformity with any legal contained herein is based on the nd is intended to describe our product ty requirements. It should be s guaranteeing specific properties.