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

47501 Manganese Black



			Page	1
Revise	d edition: 23.06.2017	Version: 2.0	Printed:	31.10.2018
1.	Identification of the Substance/Mi	xture and of the Company/Undertakin	g	
1. 1.	Product Identifier			
	Product Name:	Manganese Black		
	Article No.:	47501		
1. 2.	Relevant identified Uses of the Substance or	Mixture and Uses advised against		
	Identified uses:	Stone, gypsum, cement, glass and ceramic	c articles	
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data Sheet (Producer/Importer)			
	Company:	Kremer Pigmente GmbH & Co. KG		
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Germa	anv	
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 1606	-	
	Internet:	www.kremer-pigmente.de		
	EMail:	info@kremer-pigmente.de		
	Importer:			
1. 4.	Emergency No.			
	Emergency No.:	+49 7565 914480 (Mon-Fri 8:00 - 17:00)		
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.	and labelli	ng as
	Classification according to Directive No.			
	67/548/EC or No. 1999/45/EC	The material is not subject to classification	according	to EC lists.
	Safety Phrases:			
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product doos not require closefication	and laballi	22.22
		This product does not require classification hazardous according to CLP/GHS.	anu iabeiii	ny as
	Hazard designation:	Not applicable.		
	Signal word:			
	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			
	Other Hazards			

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



2

47501 Manganese Black Page Revised edition: 23.06.2017 Version: 2.0 Printed: 31.10.2018 2.3. Do not inhale dust. After inhalation: irritation of the respiratory system. 3. Composition/Information on Ingredients 3.1. Substance 3.2. Mixture Chemical Characterization: (Fe,Mn)3O4. Pigment Black 33, C.I. 77537 Information on Components / Hazardous Ingredients: Manganese ferrite black spinel; REACH Reg. No. > 75 % CAS-Nr: 68186-94-7 01-2119457599-19-0000 EINECS-Nr: 269-056-3 EC-Nr: Additional information: **First Aid Measures** 4. 4.1. **Description of the First Aid Measures** General information: Remove contaminated clothes. After inhalation: Supply fresh air. Consult physician if symptoms persist. After skin contact: Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap. After eye contact: Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice. After ingestion: Rinse mouth with water and drink plenty of water. 4.2. Most important Symptoms and Effects, both Acute and Delayed Symptoms: No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No information available.

5. Fire-Fighting Measures

5.1. **Extinguishing Media**

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

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

47501	Manganese Black		PIGMENTE
			Page 3
Revised	edition: 23.06.2017	Version: 2.0	Printed: 31.10.2018
5. 2.	Special Hazards arising from the Substance	or Mixture	
	Special hazards:		
		No special hazards. Product is not flammable.	
5. 3.	Advice for Firefighters		
	Protective equipment:		
	Further information:		
		Collect contaminated extinguishing wa avoid contamination of sewage system	
6.	Accidential Release Measures		
6. 1.	Personal Precautions, Protective Equipment	t and Emergency Procedures	
	Personal precautions:		
		Ensure adequate ventilation.	
		Wear appropriate protective equipme	nt. Keep spectators away.
6. 2.	Environmental Precautions		
	Environmental precautions:	Provent contamination of sails drains	and aurface water
6. 3.	Methods and Material for Containment and	Prevent contamination of soils, drains	and surface water.
0. 0.	Methods and material:		
	Methous and material.	Take up mechanically and collect in s	uitable containers for
		disposal. Avoid dust formation.	
6. 4.	Reference to other Sections		0
		For information for safe handling see Protective clothing, see Section 8.	Section 7.
7.	Handling and Storage		
7. 1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Provide good ventilation and/or exhat adequate ventilation. Handle and ope	
	Hygienic measures:		
		Keep away from foodstuffs and drinks during work. Wash hands before brea	
7. 2.	Conditions for Safe Storage, including any I	ncompatibilities	
	Storage conditions:	-	
		Store in tightly sealed containers in a	dry room.
	Requirements for storage areas and containers:		
		No special measures necessary.	
	Information on fire and explosion protection:		
	Storage class (VCI):		
		13; Non combustible solids	

KREMER

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

47501	Manganese Black	PIGMEN		ENTE
	<u>.</u>		Page	4
Revised	edition: 23.06.2017	Version: 2.0	Printed:	31.10.2018
	Further Information:			
7. 3.	Specific End Use(s)			
	Further information:			
8.	Exposure Controls/Personal Pro	tection		
8. 1.	Parameters to be Controlled			
	Parameters to be controlled (DE):			
		TRGS 900		
		TLV: 1.25 mg/m3 air-borne fraction (ge TLV: 10 mg/m3 inhalable fraction (gen Peak limit Category: 2 (II))
	Parameters to be controlled:			
		Manganese ferrite (CAS 68186-94-7): Mn, inhalable fraction); 0.05 mg/m3 (a		
	Derived No-Effect Level (DNEL):			
		Manganese ferrite (CAS 68186-94-7):		
		10 mg/m3 (worker, inhalation, long-ten 10 mg/m3 (worker, inhalation, long and systemic and local effects)	•	
		3 mg/m3 (worker, inhalation, long-term 3 mg/m3 (worker, inhalation, long-term effects)	•	
	Predicted No-Effect Concentration (PNEC):			
	Additional Information:			
8. 2.	Exposure Controls			
	Technical protective measures:			
		Ensure adequate ventilation, especial	y in confined ar	eas.
	Personal Protection			
	General protective measures:			
		Keep away from foodstuffs and drinks. during work. Wash hands before breal		
	Respiratory protection:	Respiratory equipment required in cas filter type P3.	e of insufficient	ventilation,
	Hand protection:			
		Protective gloves (EN 374)		
	Protective glove material:			
		Nitrile rubber (480 min, 0.4 mm)		
	Eye protection:			
	De de made d'	Safety glasses with protective shields	(EN 166).	
	Body protection:			
	Environmental precautions:			

KREMER

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

47501 Manganese Black



			Page	5	
Revise	d edition: 23.06.2017	Version: 2.0	Printed:	31.10.2018	
9.	Physical and Chemical Prope	rties			
9. 1.	Information on Basic Physical and Chemical Properties				
	Form:	powder			
	Color:	black			
	Odor:	odorless			
	Odor threshold:				
		No information available.			
	pH-Value:				
	Melting temperature:	> 1000°C (> 1832°F)			
	Boiling temperature:				
		not applicable			
	Flash point:	not combustible			
	Evaporation rate:	Hot compusible			
		not applicable			
	Flammability (solid, gas):				
		non-combustible			
	Upper explosion limit:				
		no information available			
	Lower explosion limit:				
		no information available			
	Vapor pressure:	not applicable			
	Vapor density:	·····			
	rapor donony.	This product is a non-volatile solid.			
	Density:	4.8 g/cm3 (20°C)			
	Solubility in water:	insoluble			
	Coefficient of variation (n-				
	Octanol/Water):				
		no information available			
	Auto-ignition temperature:	not applicable			
	Decomposition temperature:				
		not determined			
	Viscosity, dynamic:				
		not applicable			
	Explosive properties:				
		not applicable			

Oxidizing properties:

47501

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

Manganese Black

KREMER

			Page	6
Revise	d edition: 23.06.2017	Version: 2.0	Printed:	31.10.2018
		not oxidizing		
	Bulk density:			
9. 2.	Further Information			
	Solubility in solvents:			
	Viscosity, kinematic			
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			
	Other information:			
10.	Stability and Reactivity			
10.1.	Reactivity			
40.0		The product is stable.		
10.2.	Chemical Stability	Stable if used according to specifications.		
10.3.	Possibility of Hazardous Reactions	-		
	-	Unknown.		
10.4.	Conditions to Avoid			
	Conditions to avoid:			
		No further information available.		
40 F	Thermal decomposition:			
10.5.	Imcompatible Materials	None known.		
10.6.	Hazardous Decomposition Products			
		None known.		
10.7.	Further Information			
11.	Toxicological Information			
11. 1.	Information on Toxicological Effects			
	Acute Toxicity			
	LD50, oral:	> 10000 mg/kg (rat)		
	LD50, dermal:			
		No information available.		
	LC50, inhalation:	No information available.		
	Primary effects			
	Irritant effect on skin:			
	nntant enect on skin.	No information available		
	Irritant effect on eyes:			

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

47501 Manganese Black



7

Page

Version: 2.0 Printed: 31.10.2018 Revised edition: 23.06.2017 Inhalation: No information available. Ingestion: No information available Sensitization: No relevant data found. Mutagenicity: No relevant data found. Reproductive toxicity: No relevant data found. Carcinogenicity: No relevant data found. Teratogenicity: No information available. Specific target organ toxicity (STOT): No relevant data found. Additional toxicological information: 12. **Ecological Information** 12.1. **Aquatic Toxicity** Fish toxicity: LC0: > 10000 mg/l (96h) Daphnia toxicity: EC0: > 10000 mg/l (48h, Daphnia magna) Bacteria toxicity: EC50: > 10000 mg/l (3h, active sludge) Algae toxicity: No information available. 12.2. Persistency and Degradability No information available. 12.3. Bioaccumulation No information available. 12.4. Mobility No information available. 12. 5. **Results of PBT- und vPvP Assessment** This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance. **Other Adverse Effects** 12.6. Water hazard class: Not hazardous. Behaviour in sewage systems: Further ecological effects:

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



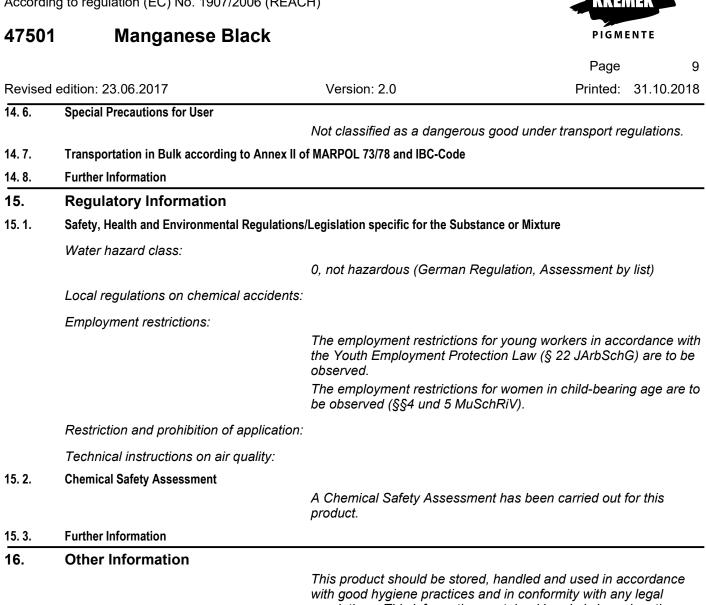
Page

8

47501 Manganese Black

Revised edition: 23.06.2017 Version: 2.0 Printed: 31.10.2018 Not considered to be environmentally harmful. AOX Value: 13. **Disposal Considerations** 13.1. Waste Treatment Methods Product: Recover or recycle if possible. Dispose of according to official national and local regulations. European Waste Code (EWC): Uncleaned packaging: Waste Code No .: 14. **Transport Information** 14. 1. **UN Number** ADR, IMDG, IATA 14.2. **UN Proper Shipping Name** ADR/RID: No hazardous goods according to ADR (land transportation). IMDG/IATA: No hazardous goods according to IMDG. 14.3. **Transport Hazard Classes** ADR Class: not applicable Hazard no .: Classification code: Tunnel restriction code: IMDG Class (sea): Hazard no .: EmS No.: IATA Class: not applicable Hazard no .: 14.4. **Packaging Group** ADR/RID: not applicable IMDG: IATA: 14.5. **Environmental Hazards** Not classified as environmentally hazardous.

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



regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.