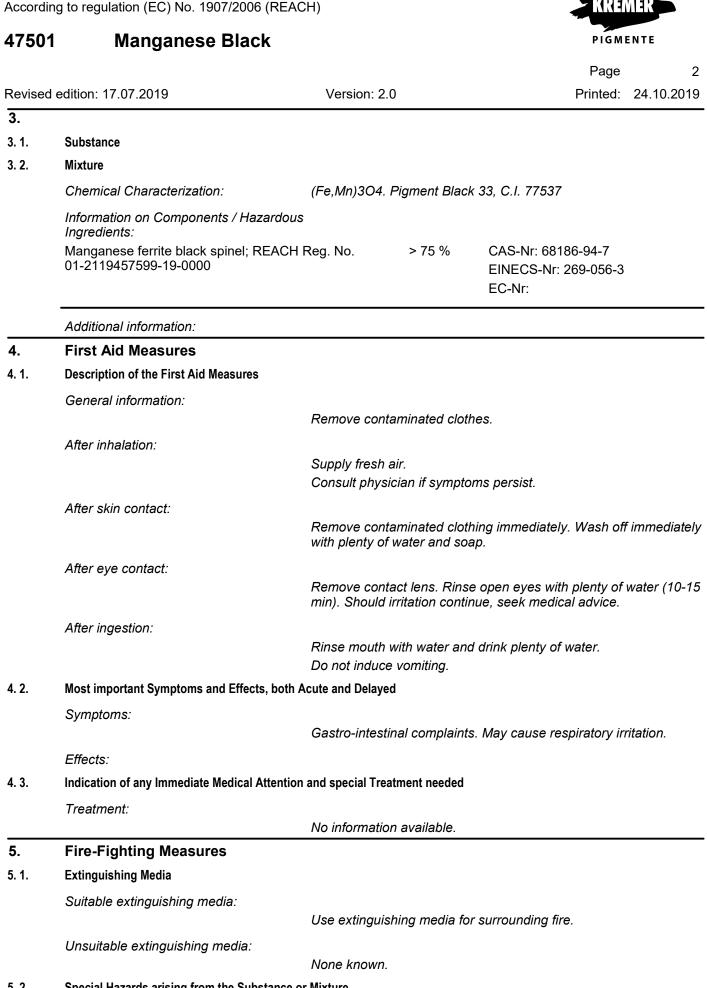
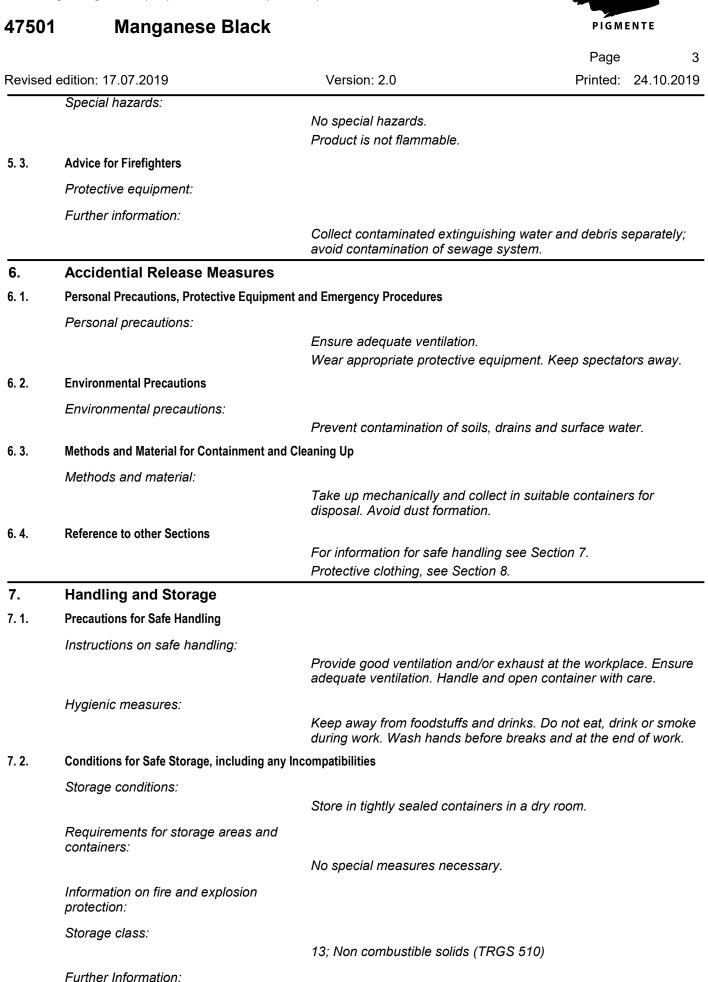
According to regulation (EC) No. 1907/2006 (REACH)

## 47501 Manganese Black



			Page	1	
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1.	Identification of the Substance/M	ixture and of the Company/Underta	aking		
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 cer	amic 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, Ge	ermany		
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 1	606		
	Internet:	www.kremer-pigmente.com			
	EMail:	info@kremer-pigmente.com			
	Importer:				
1. 4.	Emergency No.				
	Emergency No.:	+49 7565 914480 (Mon-Fri 8:00 - 17:0	0)		
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 classifica	ation and labellin	q as	
		hazardous according to CLP/GHS.			
	Possible Environmental Effects:				
2. 2.	Label Elements				
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product does not require classifica	ation and labollin	a aa	
		hazardous according to CLP/GHS.		y as	
	Hazard designation:	Not applicable.			
	Signal word:				
	Hazard designation:				
	Safety designation:				
	Hazardous components for labelling:				
2. 3.	Other Hazards				
		Do not inhale dust. After inhalation: irritation of the respirat	tory system.		





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7.3.

8.

8.1.

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## Manganese Black

Page 4 Version: 2.0 Revised edition: 17.07.2019 Printed: 24.10.2019 Specific End Use(s) Further information: **Exposure Controls/Personal Protection** Parameters to be Controlled Parameters to be controlled (DE): **TRGS 900** TLV: 1.25 mg/m3 air-borne fraction (general dust limit) TLV: 10 mg/m3 inhalable fraction (general dust limit) -94-7): TWA (EC): 0.2 mg/m3 (as /m3 (as Mn, airborne fraction) 94-7):

		Peak limit Category: 2 (II)
	Parameters to be controlled:	
		Manganese ferrite (CAS 68186-94-7): TWA (EC): 0.2 mg/m3 (as Mn, inhalable fraction); 0.05 mg/m3 (as Mn, airborne fraction)
	Derived No-Effect Level (DNEL):	
		Manganese ferrite (CAS 68186-94-7):
		10 mg/m3 (worker, inhalation, long-term exposition - local effects)
	Predicted No-Effect Concentration (PNEC):	
	Additional Information:	
		Manganese, inorganic compounds (DE BAT): 15 µg/l
8. 2.	Exposure Controls	
	Technical protective measures:	
		Ensure adequate ventilation, especially in confined areas.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory equipment required in case of insufficient ventilation,

Respiratory protection:

General protective measures:

Personal Protection

Hand protection:

Protective glove material:

Eye protection:

Body protection:

Environmental precautions:

9.	Physical and	l Chemical	Properties
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#### 9.1. Information on Basic Physical and Chemical Properties

Form:

Color:

powder

filter type P3.

Protective gloves (EN 374)

Nitrile rubber (480 min, 0.4 mm)

Safety glasses with protective shields (EN 166).

black

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Viscosity, kinematic



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	Odor:	odorless		
	Odor threshold:	No information available.		
	pH-Value:	7 - 10 (H2O: 50 g/l)		
	Melting temperature:	> 1000°C (> 1832°F)		
	Boiling temperature:	not applicable		
	Electronic Electronic State	not applicable		
	Flash point:	not combustible		
	Evaporation rate:			
		not applicable		
	Flammability (solid, gas):			
		non-combustible		
	Upper explosion limit:			
		no information available		
	Lower explosion limit:			
	N/	no information available		
	Vapor pressure:	not applicable		
	Vapor density:			
	vapor denoty.	This product is a non-volatile solid.		
	Density:	4.5 -5 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:			
	Explosive properties.	not applicable		
	Oxidizing properties:			
		not oxidizing		
	Bulk density:	< 1000 kg/m3		
9. 2.	Further Information			
	Solubility in solvents:			

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	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			
	Other information:			
10.	Stability and Reactivity			
10.1.	Reactivity			
		The product is stable.		
10.2.	Chemical Stability	Stable if used according to specifications.		
10.3.	Possibility of Hazardous Reactions			
10.0.		Unknown.		
10.4.	Conditions to Avoid			
	Conditions to avoid:			
		No further information available.		
	Thermal decomposition:			
10.5.	Imcompatible Materials	A - :- !-		
10.6.	Hazardous Decomposition Products	Acids		
10.0.		None known.		
10.7.	Further Information			
11.	Toxicological Information			
11. 1.	Information on Toxicological Effects			
		Not classified as acutely toxic.		
	Acute Toxicity			
	LD50, oral:			
	LD50, dermal:			
	LC50, inhalation:			
	Primary effects			
	Irritant effect on skin:			
		Non irritating		
	Irritant effect on eyes:	Non irritating to avon		
	liste de tions	Non-irritating to eyes		
	Inhalation:	No information available.		
	Ingestion:			
		No information available		
	Sensitization:			
		Non sensitizing.		. –

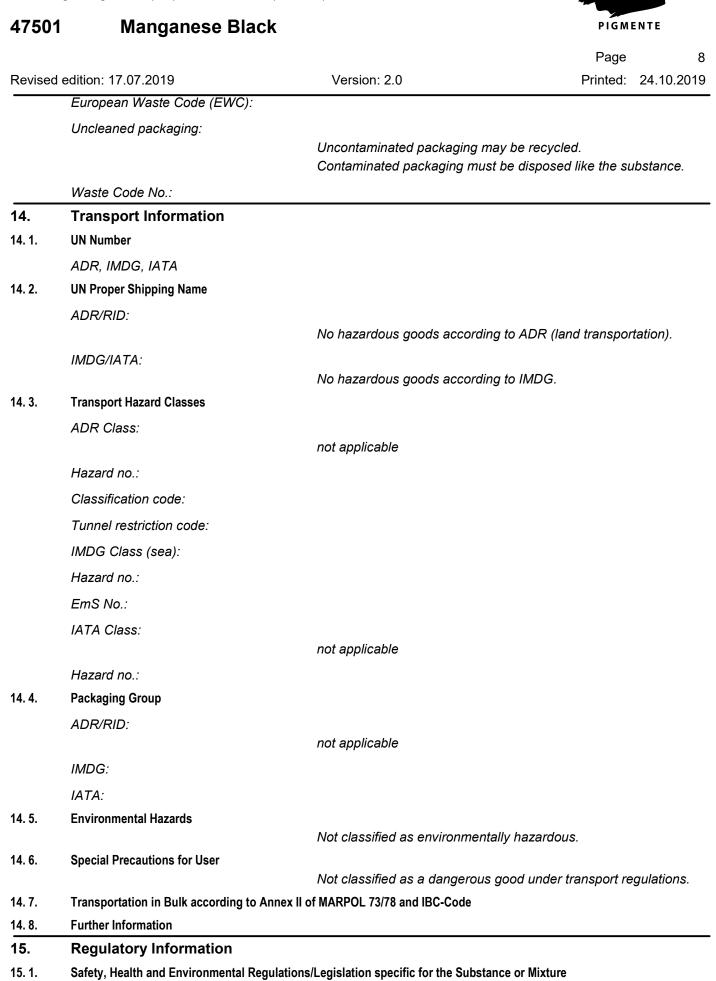
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Page 7 Version: 2.0 Revised edition: 17.07.2019 Printed: 24.10.2019 Mutagenicity: Not mutagenic. Reproductive toxicity: No reproductive toxicity expected. Carcinogenicity: No cancerogenic effect known. Teratogenicity: No information available. Specific target organ toxicity (STOT): Repeated exposure: no organospecific toxicity expected. Single exposure: no organospecific toxicity expected. Additional toxicological information: Aspiration hazard: not applicable 12. **Ecological Information** 12.1. **Aquatic Toxicity** Not hazardous to the aquatic environment. Fish toxicity: Daphnia toxicity: Bacteria toxicity: Algae toxicity: 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. 12.6. Other Adverse Effects Water hazard class: Not hazardous. Behaviour in sewage systems: Further ecological effects: Not considered to be environmentally harmful. AOX Value: 13. **Disposal Considerations** 13.1. Waste Treatment Methods

Product:





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	Water hazard class:	0, not hazardous (according to the Germ	an Regulatio	n AwSV)	
	Local regulations on chemical accidents:				
	Employment restrictions:				
	Restriction and prohibition of application:	EC. REACH, Section XVII, Restrictions o Placing on the Market and Use of Certair			
	Technical instructions on air quality:	Preparations and Articles: not applicable Manganese (Mn): 5.2.1. Total dust, including fine dust: > 25 conc. 20 mg/m3) 5.2.2.: Inorganic dust (class. III): > 25 wt-	·	-	
15. 2.	Chamical Safety Assessment	mg/m3)			
13. 2.	Chemical Safety Assessment	A Chemical Safety Assessment has beer product.	n carried out	for this	
15. 3.	Further Information				
		Listed in the following inventories:			
		REACH (EC), TSCA (US) EC. REACH, Annex XIV, Candidate List of High Concern (SVHC): not regulated / no RoHS Directive 2011/65/EC on the Restr Certain Hazardous Substances in Electric Equipment (RoHs 2): not listed.	t applicable iction of the	Use of	
40		VOC Content (w/w): 0 %			
16.	Other Information	This product should be stored, handled a with good hygiene practices and in confo regulations. This information contained h present state of knowledge and is intende from the point of view of safety requirement therefore not be construed as guarantee	rmity with an erein is base ed to describ ents. It shoul	y legal d on the e our product d be	