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

# KREME PIGMENTE

			Page	1
	d edition: 28.06.2018	Version: 3	Printed:	31.10.2018
1.		xture and of the Company/Undertaking	3	
1. 1.	Product Identifier			
	Product Name:	Iron Oxide Brown 660, dark		
	Article No.:	48350		
1. 2.	Relevant identified Uses of the Substance or I	Mixture and Uses advised against		
	Identified uses:	Coloring agent (pigment and dyes), inorgan	ic.	
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data Shee	et (Producer/Importer)		
	Company:	Kremer Pigmente GmbH & Co. KG		
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Germa	ny	
	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)			
	(LC) NO. 1212/2000 (CLI/GII3)	This product does not require classification hazardous according to CLP/GHS.	and labelli	ing as
	Classification according to Directive No.	-		
	67/548/EC or No. 1999/45/EC	The material is not subject to classification a	according	to EC lists.
	Safety Phrases:			
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulation			
	(EC) No. 1272/2008 (CLP/GHS)	No classification required according to the 0	CLP/GHS	guidelines.
	Hazard designation:			-
	, i i i i i i i i i i i i i i i i i i i	Not applicable.		
	Signal word:			
	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			
2. 3.	Other Hazards	Dust may be produced when working with t	his motori:	ol which con

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



2

Page

Revise	d edition: 28.06.2018	Version: 3	Printed: 31.10.2018
		cause a mechanical irritation of eyes, no	
3.	Composition/Information on Ingre	-	
3. 1.	Substance		
3. 2.	Mixture		
	Chemical Characterization:	Mixture of Pigment Red 101.77491 (Fe2 11.77499 (Fe3O4).	2O3) and Pigment Black
	Information on Components / Hazardous Ingredients:		
	Additional information:		
4.	First Aid Measures		
4. 1.	Description of the First Aid Measures		
	General information:		
		Take affected persons out into the fresh	air.
	After inhalation:		
		Supply fresh air and keep patient calm.	
		If breathing is difficult call a physician.	
		Keep respiratory tract clear. In case of unconsciousness place patier	nt stable in side position fo
		transportation.	
	After skin contact:		
		Wash off with water.	
	After eye contact:		
		Remove contact lens. Rinse open eyes min). Should irritation continue, seek me	
	After ingestion:		
		No special measures required.	
4. 2.	Most important Symptoms and Effects, both A	Acute and Delayed	
	Symptoms:	No finite information available	
		No further information available.	
	Effects:		
4. 3.	Indication of any Immediate Medical Attention	and special Treatment needed	
	Treatment:		
	Fire Fighting Measures	Treat symptomatically.	
5.	Fire-Fighting Measures		
5. 1.	Extinguishing Media		
	Suitable extinguishing media:	Foam, carbon dioxide (CO2), extinguish	ning nowder, water sprav
			ing powder, water spray.
	Unsuitable extinguishing media:	None known.	
5. 2.	Special Hazards arising from the Substance o		
V. L.			
	Special hazards:		next page: 3

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

Further Information:



			Page 3
Revised edition: 28.06.2018		Version: 3	Printed: 31.10.2018
		No special hazards.	
5. 3.	Advice for Firefighters		
	Protective equipment:		
		Wear self-contained respirator protective gear.	y protective device and full
	Further information:		
6.	Accidential Release Measures		
6. 1.	Personal Precautions, Protective Equipmen	t and Emergency Procedures	
	Personal precautions:		
		Avoid formation of dust, wear µ away.	protective clothing. Keep spectators
		Ensure adequate ventilation.	
		Floor may be slippery; use car	e to avoid falling.
6. 2.	Environmental Precautions		
	Environmental precautions:		
		Prevent contamination of soils,	drains and surface water.
6. 3.	Methods and Material for Containment and	Cleaning Up	
	Methods and material:	Clean un machanically. Transf	er liquids and solid diking material to
		separate suitable containers fo	
6. 4.	Reference to other Sections		
		In case of emergency, see Sec	
		Dispose of contaminated mate Protective clothing, see Section	-
7.	Handling and Storage	, , , , , , , , , , , , , , , , , , ,	
7. 1.	Precautions for Safe Handling		
	Instructions on safe handling:		
	manuling.	No special measures required.	
	Hygienic measures:	, , ,	
		Do not eat or drink during work	. Do not smoke.
7. 2.	Conditions for Safe Storage, including any I	ncompatibilities	
	Storage conditions:		
	-	Store dry and in the original tig	htly sealed containers.
	Requirements for storage areas and containers:		
		Keep container tightly closed.	
	Information on fire and explosion protection:		
		No special measures necessa	ry.
	Storage class (VCI):		
		13; Non combustible solids	

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

## 48350 Iron Oxide Brown 660, dark



Page 4

Revise	d edition: 28.06.2018	Version: 3	Printed: 31.10.2018
7. 3.	Specific End Use(s)		
	Further information:		
8.	Exposure Controls/Personal Pro	otection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):	Does not contain any components	with workplace limit values.
	Parameters to be controlled:		
	Derived No-Effect Level (DNEL):		
		Iron(III) oxide (CAS 1309-37-1): 10 mg/m3 (worker, inhalation, long local effects)	-term exposition - systemic and
	Predicted No-Effect Concentration (PNEC):		
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Ensure adequate ventilation, espec Facilities storing or utilizing this ma an eyewash and shower facility.	•
	Personal Protection		
	General protective measures:		
		Remove contaminated clothing. We Keep away from foodstuffs, bevera	
	Respiratory protection:	Dust mask.	
	Hand protection:		
		Protective gloves	
	Protective glove material:		
		Leather (< 60 min)	
	Eye protection:	Safety glasses with protective shie	Ids (EN 166)
	Body protection:	Salety glasses with protective shie	103 (LIN 100).
	Body protection.	Protective clothing.	
	Environmental precautions:	-	
		Prevent from getting into the soil, s system.	urface water and sewage
9.	Physical and Chemical Propertie	es	
9. 1.	Information on Basic Physical and Chemic	al Properties	
	Form:	powder	
	Color:	brown	
	Odor:	odorless	next page: 5

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

Viscosity, kinematic

Burning class:

#### Iron Oxide Brown 660, dark 48350



5

Page Version: 3 Revised edition: 28.06.2018 Printed: 31.10.2018 Odor threshold: No information available. pH-Value: 5 - 8 (5 %) > 1000°C (> 1832°C) Melting temperature: Boiling temperature: not applicable Flash point: not applicable Evaporation rate: This product is a non-volatile solid. Flammability (solid, gas): not applicable Upper explosion limit: no information available Lower explosion limit: no information available Vapor pressure: not applicable Vapor density: This product is a non-volatile solid. Density: 4.7 kg/l (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: Product does not present an explosion hazard. Oxidizing properties: No information available. Bulk density: 9.2. **Further Information** Solubility in solvents:

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



			Page 6
Revise	d edition: 28.06.2018	Version: 3	Printed: 31.10.2018
	Solvent content:		
	Solid content:		
	Particle size:		
	Other information:		
		No further information.	
10.	Stability and Reactivity		
10.1.	Reactivity	No information available.	
10.2.	Chemical Stability		
		The product is stable.	
10.3.	Possibility of Hazardous Reactions		
		None if handled and stored ac	cording to specifications.
10.4.	Conditions to Avoid		
	Conditions to avoid:		
	Thermal decomposition:		
10.5.	Imcompatible Materials		
		No information available.	
10.6.	Hazardous Decomposition Products	None if stored and handled ac	cording to specifications.
10.7.	Further Information		
11.	Toxicological Information		
11. 1.	Information on Toxicological Effects		
	Acute Toxicity		
	LD50, oral:	> 5000 mg/kg (rat)	
	LD50, dermal:		
		No information available.	
	LC50, inhalation:		
		No information available.	
	Primary effects		
	Irritant effect on skin:		
		Non irritating	
	Irritant effect on eyes:		
		Non-irritating to eyes Exposure to high ambient dus eyes.	t levels can cause irritation of the
	Inhalation:	Chronic effects : Repeated or	prolonged inhalation of dust can next page: 7

48350

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

# Iron Oxide Brown 660, dark



On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.				Page	7
Ingestion: No information available Sensitization: No relevant data found. Mutagenicity: No relevant data found. Mutagenicity: No relevant data found. Reproductive toxicity: No relevant data found. Carcinogenicity: No relevant data found. Carcinogenicity: No relevant data found. Teratogenicity: No relevant data found. Teratogenicity: No relevant data found. Teratogenicity: No relevant data found. Additional toxicological information By analogy with a product of similar composition.  12. Ecological Information 12. Aquatic Toxicity Fish toxicity: LC50: > 1000 mg/l (48h, Leuciscus idus; OECD 203) Daphnie toxicity: No information available. Bacteria toxicity: No information available. Algae toxicity: No information available. 12. Persistency and Degradability No information available. 12. Results of PBT- und vPvP Assessment On the basis of available. 12. Mater hazard class: Not hazardous.	Revise	d edition: 28.06.2018	Version: 3	Printed:	31.10.2018
No information available         Sensitization:       No relevant data found.         Mutagenicity:       No relevant data found.         Reproductive toxicity:       No relevant data found.         Carcinogenicity:       No relevant data found.         Carcinogenicity:       No relevant data found.         Teratogenicity:       No relevant data found.         Teratogenicity:       No information available.         Specific target organ toxicity (STOT):       No relevant data found.         Additional toxicological information       By analogy with a product of similar composition.         12.       Ecological Information         12.1       Aquatic Toxicity         Fish toxicity:       LC50: > 1000 mg/l (48h, Leuciscus idus; OECD 203)         Daphnia toxicity:       No information available.         Bacteria toxicity:       No information available.         Algae toxicity:       No information available.         12.1       Persistency and Degradability       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       On			cause a chronic irritation of the respi	ratory tract.	
Sensitization:       No relevant data found.         Mutagenicity:       No relevant data found.         Reproductive toxicity:       No relevant data found.         Carcinogenicity:       No relevant data found.         Carcinogenicity:       No relevant data found.         Carcinogenicity:       No relevant data found.         Terratogenicity:       No relevant data found.         Terratogenicity:       No information available.         Specific target organ toxicity (STOT):       No relevant data found.         Additional toxicological information:       By analogy with a product of similar composition.         12.       Ecological Information         12.1       Aquatic Toxicity         Fish toxicity:       LC50: > 1000 mg/l (48h, Leuciscus idus; OECD 203)         Daphnia toxicity:       No information available.         Algae toxicity:       No information available.         Algae toxicity:       No information available.         12.1.       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       On the basis of available data, the product does not contain and PBT or vPvP in percentage g		Ingestion:			
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Fish toxicity: Fish toxicity: Daphnia toxicity: Bacteria toxicity: Algae toxicity: No information available. 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 Don the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %. 12.6. Other Adverse Effects Water hazard class: Not hazardous.		-			
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No information available. Bacteria toxicity: Algae toxicity: No data available. 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 On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %. 12.6. Other Adverse Effects Water hazard class: Not hazardous.			LC50: > 1000 mg/l (48h, Leuciscus id	ius; OECD 203)	
Bacteria toxicity:       No data available.         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       No information available.         12.5.       Other Adverse Effects       On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12.6.       Other Adverse Effects       Not hazardous.		Daphnia toxicity:			
Algae toxicity:       No data available.         Algae toxicity:       No information available.         12.2.       Persistency and Degradability         12.3.       Bioaccumulation         12.4.       Mobility         12.5.       Results of PBT- und vPvP Assessment         12.5.       Results of PBT- und vPvP Assessment         12.6.       Other Adverse Effects         Water hazard class:       Not hazardous.			No information available.		
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       No information available.         12.5.       Results of PBT- und vPvP Assessment       On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12.6.       Other Adverse Effects       Not hazardous.		Bacteria toxicity:	<b>N</b> 11 11 11 11		
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         On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12. 6.       Other Adverse Effects         Water hazard class:       Not hazardous.			No data 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       No information available.         12. 6.       Other Adverse Effects       On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12. 6.       Water hazard class:       Not hazardous.		Algae toxicity:			
<ul> <li>No information available.</li> <li>12. 3. Bioaccumulation         <ul> <li>No information available.</li> <li>12. 4. Mobility</li></ul></li></ul>			No information available.		
<ul> <li>Bioaccumulation         No information available.     </li> <li>Mobility         No information available.     </li> <li>Results of PBT- und vPvP Assessment         On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.     </li> <li>Other Adverse Effects         Water hazard class:         Not hazardous.     </li> </ul>	12. 2.	Persistency and Degradability	No information available		
12. 4.       Mobility       No information available.         12. 5.       Results of PBT- und vPvP Assessment       No information available.         12. 6.       Other Adverse Effects       On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12. 6.       Water hazard class:       Not hazardous.	10 0	Piececumulation			
12. 4.       Mobility       No information available.         12. 5.       Results of PBT- und vPvP Assessment       On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.         12. 6.       Other Adverse Effects         Water hazard class:       Not hazardous.	12. 3.	Bioaccumulation	No information available		
<ul> <li>No information available.</li> <li>12. 5. Results of PBT- und vPvP Assessment</li> <li>On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.</li> <li>12. 6. Other Adverse Effects</li> <li>Water hazard class:</li> <li>Not hazardous.</li> </ul>	12 4	Mobility			
On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %. 12. 6. Other Adverse Effects Water hazard class: Not hazardous.		incomy	No information available.		
PBT or vPvB in percentage greater than 0.1 %. 12.6. Other Adverse Effects Water hazard class: Not hazardous.	12. 5.	Results of PBT- und vPvP Assessment			
Water hazard class: Not hazardous.					ontain and
Not hazardous.	12. 6.	Other Adverse Effects			
Not hazardous.		Water hazard class:			
Behaviour in sewage systems:			Not hazardous.		
		Behaviour in sewage systems:			

Further ecological effects:

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



8

Page

Revised	d edition: 28.06.2018	Version: 3	Printed: 31.10.2018
		No special effects or hazards	known.
	AOX Value:		
		No data available.	
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:	If product connet be reused a	r requested it has to be dispessed of
		according to current local reg	r recycled, it has to be disposed of ulations.
	European Waste Code (EWC):		
	Uncleaned packaging:		
		Uncontaminated packaging n packaging can be disposed o	nay be recycled. Completely empty f with the regular waste.
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		
		No hazardous goods accordii	ng to ADR (land transportation).
	IMDG/IATA:	No hazardous goods accordii	na 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:		next page: 9

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

# KREMER

			Page	
Revised	d edition: 28.06.2018	Version: 3	Printed:	31.10.20 <sup>7</sup>
14. 5.	Environmental Hazards			
		None		
14. 6.	Special Precautions for User			
		Not classified as a dangerous good	under transport re	egulations.
14. 7.	Transportation in Bulk according to Annex II o			
		not applicable		
14. 8.	Further Information	Do not store together with foodstuffs	-	
15.	Regulatory Information		».	
15. 1.	Safety, Health and Environmental Regulations	/ egislation specific for the Substance or	Mixture	
13. 1.		registation specific for the Substance of	WIXture	
	Water hazard class:	0. not hozordovo (Cormon Dogulati	an Accordant b	(int)
		0, not hazardous (German Regulatio	on, Assessment b	y list)
	Local regulations on chemical accidents:		under Directive 20	10/10/50
		Seveso III Directive: not applicable u	under Directive 20	12/10/EC.
	Employment restrictions:			
	Restriction and prohibition of application:			
		EC. REACH, Section XVII, Restriction Placing on the Market and Use of C Preparations and Articles: not applied	ertain Dangerous	
		Chemical Weapons Convention (CV and raw materials: not forbidden and	VC), Lists of toxic	chemicals
	Technical instructions on air quality:			
15. 2.	Chemical Safety Assessment			
		A Chemical Safety Assessment is n	ot necessary for t	his product
15. 3.	Further Information			
		Regulation (EC) 850/2004 - Persiste amending Directive 79/117/EEC: no		
		Regulation (EC) 1005/2009 - Substa Layer: not regulated / not applicable		e the Ozone
		EC. REACH, Annex XIV, Candidate High Concern (SVHC): not regulated		es of very
16.	Other Information			
		This product should be stored, hand with good hygiene practices and in or regulations. This information contair present state of knowledge and is in from the point of view of safety requ therefore not be construed as guara	conformity with an ned herein is base ntended to describ irements. It should	y legal d on the e our produ d be