

SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

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

deffner & Johann

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Revised	l edition: 30.08.2018		Version: 2	Printed:	04.06.2021	
1.	Identification of the	Substance/M	ixture and of the Company	/Undertaking		
1. 1.	Product Identifier					
	Product Name:		Chromium Oxide Green Bri	illiant		
	Article No.:		1360000, 1360120			
	UFI:					
1. 2.	Relevant identified Uses o	f the Substance or	Mixture and Uses advised against			
	Identified uses:					
			Colorant in cosmetics, artists	colors, paints and coatin	igs; catalyts.	
	Uses advised against:					
1. 3.	Details of the Supplier of t	•	· · · ·			
	Company:	Deffner & Jo	hann GmbH			
	Address:	Address: Mühläckerstraße 13, D-97520 Röthlein, Germany				
	Tel./Fax.:	Tel. +49 972	23 9350-0, Fax +49 9723 9350-2	25		
	Internet:	ernet: www.deffner-johann.de				
	EMail:	E-Mail info	@deffner-johann.de			
	Importer:					
1. 4.	Emergency No.	Tel. +49 972	23 9350-0 (Mo Fr.: 8:00 - 15:0	0 Uhr)		
	Emergency No.:					
1. 4. 2	Poison Center:					
2.	Hazards Identificati	on				
2. 1.	Classification of the Subs	tance or Mixture				
	Classification according (EC) No. 1272/2008 (C					
	(EC) NO. 1272/2008 (C	er/Gn3)	This product does not require hazardous according to CLP/		ng as	
	Possible Environmenta	l Effects:				
2. 2.	Label Elements					
	Classification according					
	(EC) No. 1272/2008 (C	LP/GHS)	No classification required acc	cording to the CLP/GHS	guidelines.	
	Hazard designation:		Not applicable.			
	Signal word:					
	-					
	Hazard designation:					
	Safety designation:	n fan Ist - Il'				
• •	Hazardous component	s for labelling:				
2. 3.			No special hazards known.			

3. Composition/Information on Ingredients

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3. 1.	Substance		Printed. 0	14.00.202
3. 2.	Mixture			
	Chemical Characterization:	Chromic oxide dihydrate. Pi	gment Green 18, C.I. 77289	
	Information on Components / Hazardous Ingredients:			
	Chromium hydrate; REACH Reg. No. 01- 2119433951-39-0002	> 95 %	CAS-Nr: 12001-99-9 EINECS-Nr: 215-160-9 EC-Nr:	
	Boron oxide (H360FD)	< 3.1 %	CAS-Nr: 1303-86-2 EINECS-Nr: 215-125-8 EC-Nr: 005-008-00-8	
	Additional information:			
4.	First Aid Measures			
4. 1.	Description of the First Aid Measures			
	General information:			
		Seek medical attention in ca	ase of complaints.	
	After inhalation:			
			nedical advice in case of com case breathing is not regular	•
	After skin contact:			
		Wash with soap and rinse with plenty of water. Wash contaminated clothing before reuse.		
	After eye contact:			
		Rinse open eyes with plenty Consult physician.	of water for at least 15 minu	utes.
	After ingestion:			
4. 2.	Most important Symptoms and Effects, both A	cute and Delayed		
	Symptoms:			
		Long-term exposure may da	amage the lungs and respirat	tory tract.
	Effects:			
	Indication of any Immediate Medical Attention	and special Treatment needed		
4. 3.				
4. 3.	Treatment:			
		Treat symptomatically.		
5.	Treatment: Fire-Fighting Measures	Treat symptomatically.		
5.		Treat symptomatically.		
4. 3. 5. 5. 1.	Fire-Fighting Measures), extinguishing powder, wat	er spray,

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5. 2.	Special Hazards arising from the Substance	e or Mixture		
	Special hazards:			
		In case of fire: hazardous gases/v	apors may be releas	sed.
5. 3.	Advice for Firefighters			
	Protective equipment:			
		Wear suitable protective clothing.	rataatika daviaa	
		Wear self-contained respiratory p	oleclive device.	
	Further information:			
6.	Accidential Release Measures			
6. 1.	Personal Precautions, Protective Equipmen	t and Emergency Procedures		
	Personal precautions:	Maay protoctive plathing		
6. 2.	Environmental Precautions	Wear protective clothing.		
0. 2.				
	Environmental precautions:	Prevent contamination of soil, dra	ins and surface wate	ers
		Contact local authorities if product		
6. 3.	Methods and Material for Containment and	Cleaning Up		
	Methods and material:			
		Take up mechanically and collect disposal. Avoid dust formation.	in suitable container	rs for
		Collect powder using a special du filter and dispose in a adequate re		vith particle
6. 4.	Reference to other Sections			
		Protective clothing, see Section 8. See Section 13 for information on		
7.	Handling and Storage		uisposai.	
7.1.	Precautions for Safe Handling			
7. 1.	-			
	Instructions on safe handling:	Wear adequate protective clothing	g (see para. 8).	
		Avoid contact with eyes, skin and		
		Provide adequate ventilation.		
	Hygienic measures:			
		Keep away from foodstuffs and dr	rinks.	
7. 2.	Conditions for Safe Storage, including any	Incompatibilities		
	Storage conditions:			
		Store in tightly sealed containers i Store locked up.	n a dry room.	
	Requirements for storage areas and containers:			
		Store the product in the original co	ontainer.	
	Information on fire and explosion protection:			
		Do not store together with ignitabl	e sources, heat and	<i>fire</i> 4

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	Storage class:			
	Further Information:			
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):			
		Chromium hydrate (CAS 12001-99-9; as (inhalable fraction)	,	-
		Boron oxide (CAS 1303-86-2), MAK: 15 fraction); STEL 75 mg/m3 (inhalable frac	U (
	Parameters to be controlled:			
		Chromium hydrate (CAS 12001-99-9; as (BE, CZ, HU, GB, FI, CH, PO, NO, SE, I (FR, ES, AT, LU)		
		Boron oxide (CAS 1303-96-4): TWA: 10 TWA: 10 mg/m3, Ceiling: 20 mg/m3 (IS), 20 mg/m3 (GB, IE); TWA: 10 mg/m3; ST TWA/STEL: 5 mg/m3 (CH); TWA: 15 mg TWA(MAK): 1.8 mg/m3 (CH)	; TWA: 10 mg EL: 15 mg/m	g/m3, STEĹ 3 (NO);
	Derived No-Effect Level (DNEL):			
		Chromium Hydrate (12001-99-9): 0.5 mg	g/m3 (inhalati	on)
	Predicted No-Effect Concentration (PNEC):			
	Additional Information:			
		Workplace Exposure Limit (WEL): The u to ensure that the environmental controls to maintain the exposure level below the	s employed a	
8. 2.	Exposure Controls			
	Technical protective measures:			
		Adequate ventilation. Facilities storing or utilizing this material an eyewash facility.	should be eq	uipped with
	Personal Protection			
	General protective measures:			
		Keep away from foodstuffs and drinks. D during work. Wash hands before breaks		
	Respiratory protection:	Required in case of insufficient ventilatio	n (EN 143 or	149).
	Hand protection:	Chemical protective gloves (EN 374 (Eu	rope) F730/	((S))
	Protective glove material:			
	-			
	Eye protection:	Safety glasses with protective shields (E	N 166)	

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	Body protection:	Protective clothing should be period.	laundered at the end of the working
	Environmental precautions:	checked to ensure they comp environmental protection legis	
		equipment will be necessary t levels.	sified for environmental effects and
		its solubility is very low.	
9.	Physical and Chemical Prop	erties	
9. 1.	Information on Basic Physical and Che	emical Properties	
	Form:	powder	
	Color:	blue-green	
	Odor:	odorless	
	Odor threshold:	no information available	
	pH-Value:	not applicable	
	Melting temperature:	> 450°C	
	Boiling temperature:	not available	
	Flash point:	not applicable	
	Evaporation rate:	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:		
	Density:	3.21 g/cm3 (20°C)	
	Solubility in water:	insoluble	
	Coefficient of variation (n- Octanol/Water):		
		not determined	

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	Auto-ignition temperature:				
		not applicable			
	Decomposition temperature:	not appliable			
		not applicable			
	Viscosity, dynamic:	not applicable			
	Explosive properties:				
		not explosive			
	Oxidizing properties:				
		not oxidizing			
	Bulk density:	ca. 400 kg/m3			
9. 2.	Further Information				
	Solubility in solvents:				
	Viscosity, kinematic:				
	Burning class:				
	Solvent content:				
	Solid content:				
	Particle size:				
	Other information:				
		No further information.			
10.	Stability and Reactivity				
10.1.	Reactivity				
		Stable if used according to specifications Boron oxide may react slowly with water		acid	
10.2.	Chemical Stability	Boron oxide may react slowly with water		aciu.	
10.21	enomoul etablity	Stable if used according to specifications).		
10.3.	Possibility of Hazardous Reactions				
		Unknown.			
10.4.	Conditions to Avoid				
	Conditions to avoid:	A			
		Avoid humidity.			
	Thermal decomposition:				
10.5.	Imcompatible Materials	Strong oxidizing agents.			
10.6.	Hazardous Decomposition Products				
	·	Chromium oxides			
10.7.	Further Information				
11.	Toxicological Information				
11. 1.	Information on Toxicological Effects				
	Acute Toxicity		ne	xt page:	7

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LD50, oral:	Paran avida (impuritu) (1202 86 2): 216	2 mg/l (mayaa); athar;			
	Boron oxide (impurity) (1303-86-2): 316 1868 (mouse)	S mg/l (mouse), other.			
	Chromic oxide (1308-38-9): > 5000 mg/	′kg (rat)			
LD50, dermal:					
	No information available.				
LC50, inhalation:					
	Chromic oxide (1308-38-9): > 5.41 mg/l	. ,			
	High concentrations of dust may irritate system and cause coughing.	throat and respiratory			
Primary effects					
Irritant effect on skin:					
	Non irritating				
Irritant effect on eyes:					
	Dust may irritate eyes.				
Inhalation:					
	Can cause irritation of the respiratory sy	/stem.			
Ingestion:					
	Not classified as harmful.				
Sensitization:					
	No sensitizing effects known.				
Mutagenicity:					
	No mutagenic effects known.				
Reproductive toxicity:					
	May damage fertility. May damage the ι				
	A human study of occupationally expose population showed no adverse reproduc studies indicate that boric acid reduces production, causes testicular atrophy, a animals during gestation, may cause de	ctive effects. Animal or inhibits sperm nd, when given to pregna			
	These feed studies were conducted und conditions leading to doses well in exce occur through inhalation of dust in the o	der chronic exposure ess of those that could			
Carcinogenicity:					
	This product is not considered to be a c NTP or OSHA.	arcinogen by IARC,ACGI			
	Chromium ion (Cr3+) (CAS 16065-83-1	,			
	IARC: 3, Not classifiable as to carcinoge	enicity to humans.			
Teratogenicity:					
	Not considered to be teratogenic.				
Specific target organ toxicity (STOT):					
	Single exposure: no information availab				
	Repeated exposure: no information ava	IIaDIC.			
Additional toxicological information:					
	No information available.	next page:			

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12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:		
		Chromium hydrate: LC0: > 10 g/l Boron oxide: LC50: 150 mg/l (24c	,
	Daphnia toxicity:	Boron oxide: EC50: 370-490 mg/l	(48h, Daphnia magna)
	Bacteria toxicity:		
	-	Chromium hydrate: NOEC: > 648 fluorescens)	0 g/l (24h, Pseudomonas
	Algae toxicity:		
		No information available.	
12. 2.	Persistency and Degradability	No information available.	
12. 3.	Bioaccumulation		
	Diodocalitation	No bioaccumulation.	
12. 4.	Mobility		
		No information available.	
12. 5.	Results of PBT- und vPvP Assessment		
12. 6.	Other Adverse Effects	Not applicable.	
12. 0.			
	Water hazard class:	Do not let product contaminate gr sewage system.	ound water, waterways or
	Behaviour in sewage systems:		
	Further ecological effects:		
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
		Dispose of according to official na	tional and local regulations.
	European Waste Code (EWC):		
		Waste codes should be assigned application for which the product	
	Uncleaned packaging:		
		Since emptied containers may ret warnings even after container is e be taken to an approved waste ha disposal.	emptied. Empty containers shou
	Waste Code No.:		

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14. 1.	UN Number			
	ADR, IMDG, IATA			
14. 2.	UN Proper Shipping Name			
	ADR/RID:			
		No hazardous goods according to A	DR (land transporta	ation).
	IMDG/IATA:		(5.0	
14. 3.	Transport Hazard Classos	No hazardous goods according to IN	NDG.	
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			
		None		
14. 6.	Special Precautions for User	Not allocation on a democracy and	under trenenert ree	ulationa
14.7.	Transportation in Bulk according to Annex II	Not classified as a dangerous good (of MARPOL 73/78 and IBC-Code	under transport reg	ulations.
14.7.		not applicable		
14. 8.	Further Information			
15.	Regulatory Information			
15. 1.	Safety, Health and Environmental Regulation	s/Legislation specific for the Substance or I	Mixture	
	Water hazard class:			
		1, slightly hazardous for water (Gern	nan Regulation)	
	Local regulations on chemical accidents			
	Employment restrictions:			
	Restriction and prohibition of application	r		

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	Technical instructions on air quality:			
15. 2.	Chemical Safety Assessment			
		A Chemical Safety Assessment ha product.	s not been carried	out for this
15. 3.	Further Information			
		Listed in the following inventories:		
		EINECS (EU), TSCA (US), AICS (AUS), DSL (CA), PICCS (PH KECL (KR), ENCS (JP), NZIoC (NZ), IECSC (CN), NECI (TW)		
		Regulation (EC) 2037/2000 - Subs Layer: not regulated / not applicabl		the Ozone
		Regulation (EC) 850/2004 - Persist amending Directive 79/117/EEC: n		
		Regulation (EC) 689/2008 concern dangerous chemicals: not regulate		import of
16.	Other Information			
		This product should be stored, han with good hygiene practices and in regulations. This information conta present state of knowledge and is i from the point of view of safety req therefore not be construed as guar	conformity with an ined herein is base intended to describ uirements. It should	y legal d on the e our produc d be