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1.	Identification of the Substance/Mi	xture and of the Company/Undertaking	g	
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:	<b>T</b> - ((		
1 2	Datails of the Supplier of the Safety Data She	/ attoo		
1. 5.		Kromer Bigmente CmbH & Co. KC		
	Address:	Hauntetr 41-47 88317 Aichstattan Carma	nv	
	Tol /Eox :	Tol +40 7565 014490 Eox +40 7565 1606	''y	
	Ittornoti	Tel +49 7505 914460, Fax +49 7505 7600		
		mo@kremer-pigmente.com		
1 /	Importer:			
1. 4.		+40 7565 014480 (Map Eri 8:00 17:00)		
1 4 2	Poison Center	+49 7 505 9 14480 (1001-F11 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	ing as
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS) Hazard designation:	Not a hazardous substance or mixture acco (EC) No. 1272/2008 (see also Section 11.0 This product does not require classification hazardous according to CLP/GHS.	ording to Ro 2) and labelli	egulation ing as
	nazaru uzsiyilalion.			

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47250	Furnace Black			PIGMENTE
				Page 2
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	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			
2. 3.	Other Hazards	Ducto	on form ovalooiv	
2	Composition/Information on Ingr	Dust ca	an form explosiv	e mixtures with air.
J. 21	Substance	Julents		
3.1.				
J. Z.	Chamical Characterization:	A 100 o 100	hava aarban bla	ak Diamont Block 7. C. I. 77966
		Amorpi	nous cardon dia	CK. Pigment Black 7, C.I. 77266
	Information on Components / Hazardou Ingredients:	S		
	Carbon Black, amorphous; REACH-Nr. 2119384822-32-0032	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 n	nedical attention	in case of complaints.
	After inhalation:	<b>a</b> 1	<i>.</i>	", <b>.</b> , ,
		Supply	tresn air. Consl	lit physician it symptoms persist.
	After skin contact:	W/ash	with soan and rir	ase with plenty of water
	After eve contact:	110311	Min Soap and m	ise with pienty of water.
	Aner eye comacı.	Rinse o Seek n	open eyes with p nedical attention	plenty of water for at least 15 minutes. if irritation persists.
	After ingestion:			
		Rinse ı	mouth with plent	y of water.
		lf symp Never	otoms persist col aive anything by	nsult physician. mouth to an unconscious person
4. 2.	Most important Symptoms and Effects, both	Acute and	Delaved	
	Symptoms:		2014/04	
	Symptoms.	Inhalat	ion: coughing, si	neezing.
	Effects:			-
4. 3.	Indication of any Immediate Medical Attentio	n and spec	cial Treatment nee	ded
	- Treatment:	•		
		After s	wallowing larger	amounts of product: give active coal.
5.	Fire-Fighting Measures			
5. 1.	Extinguishing Media			

Suitable extinguishing media:

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		Foam, carbon dioxide (CO2), nitrogen (N2). Use of atomized spray is reco	extinguishing powder, water spray, mmended if water is used
	Linsuitable extinguishing media:		
		Water with full iet.	
5. 2.	Special Hazards arising from the Substance	ce or Mixture	
	Special hazards:		
		In case of fire: formation of ca organic decomposition produc	rbon oxides, sulfur oxides and ts.
5. 3.	Advice for Firefighters		
	Protective equipment:		
		Wear self-contained respirator	ry protective device.
	Further information:		
		Avoid contamination of sewag ground water.	e system, open water ways and
		Contaminated extinguishing w of according to local regulation	ater and debris should be disposed ns.
6.	Accidential Release Measures		
6. 1.	Personal Precautions, Protective Equipme	ent and Emergency Procedures	
	Personal precautions:		
		Wear protective clothing.	
		Avoid formation of dust. Together with water product c	auses slinnerv surfaces
6 2	Environmental Precautions		
0. 2.			
	Environmental precautions.	Prevent contamination of soils	. drains and surface water.
6. 3.	Methods and Material for Containment and	d Cleaning Up	
	Methods and material:		
		Take up mechanically and coll disposal. Avoid dust formation	lect in suitable containers for
6. 4.	Reference to other Sections		
		See Section 13 for information	on disposal.
7.	Handling and Storage		
7.1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Avoid formation and deposition ventilation.	n of dust. Provide adequate
	Hygienic measures:		
		Do not eat or drink during wor	k. Do not smoke.
		Avoid contact with skin, eyes a Wash hands before breaks an	and clothing. Do not inhale dust. d after work.
6. 4. 7. 7. 1.	Reference to other Sections Handling and Storage Precautions for Safe Handling Instructions on safe handling: Hygienic measures:	Take up mechanically and coll disposal. Avoid dust formation See Section 13 for information Avoid formation and deposition ventilation. Do not eat or drink during work Avoid contact with skin, eyes a Wash hands before breaks an	lect in suitable containers for n on disposal. n of dust. Provide adequate k. Do not smoke. and clothing. Do not inhale dust. d after work.

#### 7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

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		Store in closed container and ke	ep product dry.
		Keep away from ignitable source	es, neat and fire.
	Requirements for storage areas and containers:		
		Store product in correctly labelle	d containers.
	Information on fire and explosion protection:		
		Keep away from sources of ignit measures to prevent electrostati	ion - do not smoke. Take c discharge.
		Do not store together with: stron	g oxidants.
		Do not store together with flamm	nable products.
		Carbon monoxide can be formed ventilated storage rooms.	d in closed containers or not well
		Should repair work be necessary welding), the area has to be com	y in the manufacturing facility (e.g. npletely free from the product.
		Max. pressure increase: 30 - 10	e > 0 - 200 bar m/s). 0 b/s: lanition eneray: > 1 kJ
Storage class:			
	Eurther Information		
7. 3.	Specific End Use(s)		
	Further information:		
		See Section 1.2.; no other uses	provided
8.	Exposure Controls/Personal Pro	tection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):		
		TRGS 900	
		Carbon Black, amorphous (CAS	1333-86-4):
		TLV: 1.25 mg/m3 air-borne fract	ion (general dust limit)
		ILV: 10 mg/m3 innaiable fractio	n (general dust limit)
	Parameters to be controlled:	Carbon Black, amorphous (CAS fraction): 3.5 mg/m3 (EH40 WEL mg/m3 (EH40 WEL)	1333-86-4), TWA (inhalable .); STEL (inhalable fraction): 7.0
	Derived No-Effect Level (DNEL):		
	Predicted No-Effect Concentration (PNEC):		
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Adequate ventilation to control a exposure limits.	irborne concentrations below the
	Personal Protection		
	General protective measures:		

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		drink or smoke while working.	
		Preventive skin protection by	applying protective cream.
	Respiratory protection:		
		Dust mask recommended whe	in very dusty: with particle filter P2.
	Hand protection:	Protective aloves	
	Protective glove material:		
	Tolective glove material.	Natural rubber (NR), polyvinyl	chloride (PVC), nitrile rubber (NBR).
	Eye protection:		
		Safety glasses with protective	shields (EN 166).
	Body protection:		
		Not required.	
	Environmental precautions:		
	Dhusiaal and Chamical Prov	Suppress dust with a water sp	ray jet.
9.	Physical and Chemical Prope	rties	
9. 1.		mical Properties	
	Form:	powaer	
	Color:	black	
	Odor:	odorless	
	Odor threshold:	no information quailable	
		> 0.5 (50 g/l, 20 C)	
	Meiting temperature:	> 3000°C	
	Boiling temperature:	> 3000°C	
	Flash point:	not annlicable	
	Eveneration rate:	ποι αρρικασιε	
	Evaporation rate.	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:		
		not applicable	
	Vapor density:		
		No information available.	
	Density:	1.7 - 1.9 g/cm3 (20°C)	
	Solubility in water:	insoluble	
	Coefficient of variation (n-		novt nago:

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	Octanol/Water):			
		not applicable		
	Auto-ignition temperature:	> 140°C		
		Method: IMDG-Code. Cubic sai lengths.	mple container of 100 i	mm side
		Not classifiable as a Division 4. by UN Recommendations on th gerous Goods and IMDG. Volume-dependent parameter, 1 I sample. Temperature decreases with in	2 self-heating substand le Transport of Dan- measured temperature creasing volume	ce as defined e refers to the
	Decomposition temperature:	> 400°C (VDI 2263)		
	Viscosity, dynamic:			
		not applicable		
	Explosive properties:			
		Product is not explosive; howev can be formed.	/er, an explosive dust/a	air mixture
	Oxidizing properties:			
		no information available		
	Bulk density:	80 - 220 kg/m3		
9. 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	0 100 have 10	
		Dust deflagration index (Kst): 3 Impact sensitivity: no impact se	0 - 100 bar.m/s ensitive	
		Minimum ignition energy: > 1 k.	J	
		Minimal ignition temperature: >	•600°C	
10.	Stability and Reactivity			
10.1.	Reactivity			
		Stable if used according to spe	cifications.	
10.2.	Chemical Stability		···· /·	
40.0		Stable if used according to spec	cifications.	
10.3.	Possibility of Hazardous Reactions	The product is not dust explosiv accumulation of fine dust can h explosion. Hazardous polymerisation will r	ve when delivered. The owever increase the ri-	e sk of dust

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10.4.	Conditions to Avoid			
	Conditions to avoid:			
		Avoid heat and sources of ignition.		
	Thermal decomposition:	(0000		
40.5		> 400°C		
10.5.	Incompatible Materials	Strong oxidizing agents		
10.6.	Hazardous Decomposition Products			
		In case of fire: formation of carbon oxion decomposition and sulfoxides.	des, organic pro	oducts of
10.7.	Further Information			
11.	Toxicological Information			
11. 1.	Information on Hazard Classes as define	d in Regulation (EC) No. 1272/2008		
	Acute Toxicity			
	LD50, oral:	> 8000 mg/kg (rat; OECD 401) Assessment: The substance or mixturi	e has no acute i	oral toxicity
	IDEO dormali	Assessment. The substance of mixture		Star toxicity.
	LD30, dermai.	No information available.		
	LC50, inhalation:			
		No information available.		
	Primary effects			
	Irritant effect on skin:			
		Non irritating (rabbit; OECD 404)		
	Irritant effect on eyes:	Non-irritating to eyes (rabbit; OECD 40	05)	
	Inhalation:			
		No information available.		
	Ingestion:			
		No information available		
	Sensitization:			
		Non sensitizing (guinea pig; OECD 400	6).	
	Mutagenicity:	In vitro genetic tovicity:		
		Carbon Black is not suitable to be test and other in vitro systems because of	ed in bacterial (, its insolubility. V	Ames test) Vhen tested,
		Organic solvent extracts of Carbon Black sho Organic solvent extracts of Carbon Bla traces of polycyclic aromatic hydrocarl examine the bioavailability of these PA very tightly bound to Carbon Black and	wea no mutage ack can, howeve bons (PAHs). A \Hs showed tha d not bioavailabi	study to t PAHs are t 5).
		In vivo genetic-toxicity:		,
		In an experimental investigation, mutai gene were reported in alveolar epitheli	tional changes i ial cells in the ra	n the hprt It following

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	inhalation exposure to Carbon to be rat specific and a conseq to chronic inflammation and rel	Black. This observation is believed uence of "lung overload" which led ease of genotoxic oxygen species.	
	Assesment: Not a mutagen.		
	In vivo mutagenicity in rats is o to a threshold effect and a cons led to chronic inflammation and species. This mechanism is co secondary genotoxic effect and not be considered to be mutage	ccurring by mechanisms secondary sequence of "lung over-load" which I release of genotoxic oxygen nsidered to be a I, thus, Carbon Black itself would enic.	
Reproductive toxicity:			
	Effect on fertility:		
	No experimental studies on eff reproduction have been located	ects of Carbon Black on fertility and d.	
	However, based on the toxicok deposited in the lungs and bas properties (insolubility, low abs distribute in the body to reach i foetus under in vivo conditions.	inetics data, Carbon Black is ed on its specific chemical-physical orption potential), it is not likely to eproductive organs, embryo and/or	
	Therefore, no adverse effects o development are expected. No term animal studies.	of Carbon Black to foetal effects have been reported in long-	
	Effects on the development of	the unborn child:	
	No experimental studies on effort development have been locate	ects of Carbon Black on foetal d.	
	However, based on the toxicok deposited in the lungs and bas properties (insolubility, low abs distribute in the body to reach r foetus under in vivo conditions.	inetics data, Carbon Black is ed on its specific chemical-physical orption potential), it is not likely to reproductive organs, embryo and/or	
	Es werden daher keine ungüns Kohlenstoffschwarz auf die föta	tigen Auswirkungen durch ale Entwicklung erwartet.	
	Assessment: No reproductive e	effect. No teratogenic effect.	
Carcinogenicity:			
	Oral, rat (2 years; feeding stud	<i>y</i> )	
	Oral, mouse (2 years; feeding :	study)	
	Dermal, mouse: 12-18 months; tumors.	Target organ: skin; effect: no	
	Evaluation: no tumors.		
	Rat, mouse (2 years). Exposition lung. Effect: inflammation, fibro	on: Overload Effect). Target organ: sis, tumors.	
	Target organ: lung. Effect: infla	mmation, hyperplasia, fibrosis.	
Teratogenicity:			
	Not considered to be teratogen	ic.	
Specific target organ toxicity (STOT):			
	Single exposure: no organospe	cific toxicity expected.	
	Repeated exposure: no organo	specific toxicity expected.	
	NOAEC: 1 mg/m3 inhalaton (re inflammatio, hyperplasia, fibros 2 years); NOEL: 52 mg/kg oral	espirable fraction) (90d, lungs / is); NOEL: 137 mg/kg oral (mouse, (rat, 2 years)	

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		No risk of aspiration.			
11. 2.	Information on other Hazards				
		In 1995 IARC concluded, "There humans for the carcinogenicity of inhalation studies IARC conclud in experimental animals for the of IARC's overall evaluation was the carcinogenic to humans (Group	In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of Carbon Black." Based on rat inhalation studies IARC concluded that there is "sufficient evid in experimental animals for the carcinogenicity of Carbon Black IARC's overall evaluation was that "Carbon Black is possibly carcinogenic to humans (Group 2B)."		
		This conclusion was based on IA such a classification if one anima genicity in two or more studies. I of exposure under "lung over-loa lung tumours in rats is specific to showed no carcinogenicity in sin	ARC's guidelines, whi al species exhibits cal Lung tumours in rats a ad" conditions. The de o this species. Mouse nilar studies.	ch require rcino- are the result velopment of and hamster	
		In 2006 IARC re-affirmed its 199 as, Group 2B (possibly carcinog	5 classification of Cai enic to humans).	rbon Black	
		Overall, as a result of the detaile no causative link between Carbo in humans has been demonstrat the IARC evaluation in 2006.	ed epidemiological inve on Black exposure and ed. This view is consi	estigations, d cancer risk istent with	
		Furthermore, several epidemiolo workers in the Carbon Black pro evidence of clinically significant occupational exposure to Carbo relationship was observed in wo	ogical and clinical stud duction industries sho adverse health effects n Black. No dose resp rkers exposed to Carl	lies of ow no s due to oonse oon Black.	
		Applying the rules of the Globall Classification and Labelling (GH CLP Regulation) the results of re carcinogenicity studies in anima Carbon Black for Specific target exposure) and carcinogenicity.	y Harmonized System S, e.g. UN `Purple Bo epeated dose toxicity Is do not lead to class organ toxicity (Repea	of ok´, EU and ification of ted	
		UN GHS says, that even if adve studies or in-vitro tests, no class mechanism or mode of action is	rse effects are seen ir ification is needed if t not relevant to humai	n animal he ns. 2)	
		The European CLP Regulation a is indicated, if the mechanism is Furthermore, the CLP guidance states, that "lung overload" in an not	also mentions, that no not relevant to humai on classification and i imals is listed under r	classification ns. 3) labelling nechanism	
		relevant to humans. 4)			
12.	Ecological Information				
12. 1.	Aquatic Toxicity				
	Fish toxicity:				
		LC50: > 1000 mg/l (96h, Danio r	erio; OECD 203)		
		LC0: > 5000 mg/l (14d, Leuciscu	ıs idus)		
		Acute / Chronic aquatic toxicity:			
		Carbon Black is an inert, inorgar therefore its bioavailability for aq element it has not further reactiv acute toxicity is not expected.	nic and water insoluble uatic organisms is low e or functional groups	e substance v. As an s and an	

Daphnia toxicity:

EC50: > 5600 mg/l (24h, Daphnia magna; OECD 202)

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		EC0: > 400 g/l (3h) DEV L3 (TTC-Test)			
		EC10: 800 g/l (3h) DEV L3 (TTC-Test)			
		Toxicity Data on Soil:			
		As an inert solid substance, insoluble in solvents diffusion through membranes or bioaccumulation to terrestrial organisms the available data, Carbon Black is not c terrestrial organism.	water and org r uptake and is not expecte onsidered as	ianic ed. Base toxic to	əd on
	Algae toxicity:				
		EC50: > 10000 mg/l (72h, Scenedesmus NOEC: > 10000 mg/l (72h, Scenedesmu 201)	subspicatus; s subspicatus	; OECD s; OECE	201) ว
12. 2.	Persistency and Degradability				
		Carbon Black is substantially elemental of inorganic and cannot be further biodegra	carbon. The s ided by micro	ubstanc organis	:e is ms.
		The product floats on the water surface a	and does not	dissolve	).
12. 3.	Bioaccumulation				
		Considered unlikely to bioaccumulate.			
12. 4.	Mobility				
		organic solvents. Its vapour pressure is r properties it is expected that Carbon Blac water in relevant amounts. Also potential or air, respectively, can be dismissed. Th sediments is therefore the most relevant the environment.	regligible. Bas ck will not occ for distribution deposition compartment	sed on t sur in air on via wo in soil o t of fate	ihese r or ater in
12. 5.	Results of PBT- und vPvP Assessment				
		Not classified as PBT substance / Not cla substance.	assified as a v	vPvB	
12. 6.	Endocrine Disrupting Properties				
		This substance/mixture does not contain to have endocrine disrupting properties a Article 57(f) or Commission Delgated Re 2017/2100 or Commission Regulaton (E 0.1 % or higher.	components according to F gulation (EU) U) 2018/605 a	conside REACH No. at levels	red of
12.7.	Other Adverse Effects				
	Water hazard class:				
		Not hazardous.			
	Behaviour in sewage systems:				
		Based on the available data, the product interfere with the operation of sewage tre	is not expect eatment plant	ed to s	
	Further ecological effects:				
	AOX Value:				
13.	Disposal Considerations				
13. 1.	Waste Treatment Methods				
	Product:				

In accordance with current regulations, product may be taken to a next page: 11

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		waste disposal site or incinera	ation plant, after consultation with site onsible authority
	European Waste Code (EWC)		
		The waste code must be dete disposal service.	ermined together with the regional
	Uncleaned packaging:		
		Non-contaminated packaging Contaminated packaging mus	n may be recycled. I be disposed like the substance.
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		
		No hazardous goods accordir transportation).	ng to ADR / DOT (US) (land
	IMDG/IATA:		
		Not hazardous goods	
14. 3.	Transport Hazard Classes		
	ADR Class:	not applicable	
		ποι αρριιταρίε	
	Hazara no.:		
	Tunnel restriction code:		
	IMDG Class (sea):	not applicable	
		ποι αρριιταρίε	
	Hazard no.:		
	EmS No.:		
	IATA Class:	not applicable	
	Hazard no.:		
14. 4.	Packaging Group		
	ADR/RID		
		not applicable	
	IMDG:		
	ΙΑΤΑ:		
14. 5.	Environmental Hazards		
		None	
14. 6.	Special Precautions for User		

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14. 7.	Maritime Transport in Bulk according to IMO I	nstruments		
		not applicable		
14. 8.	Further Information	Net activated acylery black of minavel avisit	-	
		Not activated carbon black of mineral origin No hazardous goods of classification 4.2.	1.	
15.	Regulatory Information			
15. 1.	Safety. Health and Environmental Regulations	/Legislation specific for the Substance or Mixture		
-	Water bazard class:			
		0, not hazardous (German Regulation; Seli	f-assessme	ent)
	Local regulations on chemical accidents:			
	Employment restrictions:			
	Restriction and prohibition of application.			
	Technical instructions on air quality:			
15. 2.	Chemical Safety Assessment			
		A Chemical Safety Assessment has been of product.	carried out i	for this
15. 3.	Further Information			
		Listed in the following inventories:		(CA)
		ENCS/ISHL (JP), KECI (KR), PICCS (PH), (NZ), PICCS (PH), CSNN (TW)	IECSC (CI	V), NZIOC
16.	Other Information			
		This product should be stored, handled and with good hygiene practices and in conform regulations. This information contained her present state of knowledge and is intended from the point of view of safety requiremen therefore not be construed as guaranteeing 1) Baan, R. Carcinogenic Hazards from Inh Titanium Dioxide, and Talc not Containing Asbestiform Fibers: Recent Evaluations by Working Group. Inhalation Toxicology, 19 (	I used in ac nity with an ein is based to describe ts. It should g specific punaled Carbo Asbestos o an IARC M (Suppl. 1); 2	cordance y legal d on the e our product t be roperties. on Black, r fonographs 213-228
		<ul> <li>(2007).</li> <li>2) • UN: Globally harmonized system of cla of chemicals (GHS).Revision 3, 2009. http://www.unece.org/trans/danger/publi/gh s_e.html:)</li> </ul>	nssification	and labelling )3/03file
		3) • EU: Regulation (EC) No 1272/2008 of Parliament and of the Council of 16 Decem classification, labelling and packaging of su amending and repealing Directives 67/548/ and amending Regulation (EC) No. 1907/2 http://eurlex.europa.eu/LexUriServ/LexUriS uri=OJ:L:2008:353:0 001	the Europe ber 2008 o ibstances a /EEC and 1 006. 2008: Serv.do?	an n and mixtures, 999/45/EC, 1-1355.
		4) • Guidance to Regulation (EC) No 1272/ Labelling and Packaging of Substances an 2009- IHCP, DG Joint Research Centre, Ed http://ecb.jrc.ec.europa.eu/documents/Class Labelling/CLP_Guida	'2008 on Cl d Mixtures. uropean Cc sification-	assification, 14 May ommission
		6) Elder, A.C.P., Corson, N., Gelein, R., Me	ercer, P.guy ne>	<i>∤en, K.,</i> kt page: 13

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