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1.	Identification of the Substance/Mi	ixture and of the Company/Undertak	king	
1. 1.	Product Identifier			
	Product Name:	Shellac, light		
	Article No.:	60440		
1. 2.	Relevant identified Uses of the Substance or	Mixture and Uses advised against		
	Identified uses:	Surface finish, binding agent, glue, food anti-sticking agent)	additive (coating, glazing,	
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data She	et		
	Company:	Kremer Pigmente GmbH & Co. KG		
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Ger	many	
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 16	06	
	Internet:	www.kremer-pigmente.de		
	EMail:	info@kremer-pigmente.de		
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 EC Regulation 1272/2008			
		This product is not classified as hazardo CLP/GHS Directive.	ous according to the	
	Classification according to EC Regulation No. 67/548 or No. 1999/45			
		The material is not subject to classificati	on according to EC lists.	
	Safety Phrases:			
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to EC Regulation 1272/2008	This product does not require classificat hazardous according to CLP/GHS.	ion and labelling as	
	Hazard designation:	Not applicable.		
	Signal word:			
	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			
2. 3.	Other Hazards			

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3.	Composition/Information on I	ngredients		
3. 1.	Substance			
3. 2.	Mixture			
	Chemical Characterization:	Natural resin, animal origin, decc 59-3, EINECS 232-549-9	olorized and wax-free; CAS No. 900	
	Hazardous Ingredients:			
	Additional information:	Shellack complies with the definit the mandatory REACH Registrat	tion of a polymer: exempted from ion.	
4.	First Aid Measures			
4. 1.	Description of the First Aid Measures			
	General information:			
		Remove contaminated clothes.		
	After inhalation:			
		No special measures required.		
	After skin contact:			
		Remove contaminated clothing. Not of water and soap.	Wash off immediately with plenty	
	After eye contact:			
		Rinse open eye for several minut irritation continue, seek medical a		
	After ingestion:			
		Rinse mouth with plenty of water	and consult physician.	
4. 2.	Most important Symptoms and Effects,	both Acute and Delayed		
	Symptoms:	No further information available.		
	Effects:	No further information available.		
4. 3.	Indication of any Immediate Medical Atto			
	Treatment:			
	noutron.	Treat symptomatically.		
5.	Fire-Fighting Measures	· · ·		
5. 1.	Extinguishing Media			
	Suitable extinguishing media:			
	general general general general	Foam, carbon dioxide (CO2), ext	inguishing powder, water jet.	
	Unsuitable extinguishing media:		-	
		Water with full jet.		
5. 2.	Special Hazards arising from the Substa	nce or Mixture		
	Special hazards:			
		In case of fire: formation of carbo	on oxides.	
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5. 3.	Advice for Firefighters			
	Protective equipment:			
		No special measures required.		
	Further information:			
		Cool exposed containers with water spra	•	
		Contaminated extinguishing water and a of according to local regulations.	lebris should be disposed	
6.	Accidential Release Measures			
6. 1.	Personal Precautions, Protective Equipment	t and Emergency Procedures		
	Personal precautions:			
		No special measures required.		
6. 2.	Environmental Precautions			
	Environmental precautions:			
		Prevent contamination of soil, drains and surface waters.		
6. 3.	Methods and Material for Containment and (Cleaning Up		
	Methods and material:			
		Take up mechanically and collect in suita disposal.	able containers for	
6. 4.	Reference to other Sections			
		Protective clothing, see Section 8.		
7.	Handling and Storage			
7. 1.	Precautions for Safe Handling			
	Instructions on safe handling:			
		Provide good ventilation and/or exhaust adequate ventilation. Handle and open o		
		Avoid contact with eyes and skin.		
		Do not swallow or inhale.		
	Hygienic measures:	Kaan away from to add the and drinks.	De net est driek er eneke	
		Keep away from foodstuffs and drinks. during work. Wash hands before breaks		
		Take off contaminated clothing immedia separately.	tely. Store working clothes	
7. 2 .	Conditions for Safe Storage, including any Incompatibilities			
	Storage conditions:			
		Store at room temperature.		
		Storage temperature: < 20°C.	f . EO 0/	
		Store product at a relative air humidity of Do not store together with food stuff and		
	Poquiromonto for storage areas and			
	Requirements for storage areas and containers:			
		No special measures necessary.		
	Information on fire and explosion			
	protection:		not omole-	
		Keep away from sources of ignition - do	not smoke. 4	

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	Storage class (VCI):	11; Combustible solids	
	Further Information:		
7.3.	Specific End Use(s)		
	Further information:		
		No information available.	
8.	Exposure Controls/Personal Pro	otection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):		
		none known	
	Parameters to be controlled (EC):		
	Derived No-Effect Level (DNEL):		
	Predicted No-Effect Concentration (PNEC):		
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Provide adequate ventilation.	
	Personal Protection		
	General protective measures:		
		Keep away from foodstuffs and drinks. Do not eat, drink or during work. Wash hands before breaks and at the end of v	
	Respiratory protection:		
		Not required.	
	Hand protection:	Protective gloves (EN 374)	
	Protoctivo alovo motoriali	Fiolective gioves (EN 374)	
	Protective glove material:	Butyl rubber (480 min; 0.5 mm).	
		Polyvinyl chloride (> 480 min; > 0.5 mm)	
		Fluoro carbon rubber -FKM (480 min; 0.4 mm).	
		Nitrile rubber (480 min, 0.35 mm)	
	Eye protection:	Safaty glasses with protective chields (EN 166)	
		Safety glasses with protective shields (EN 166).	
	Body protection:	Protective clothing.	
	Environmental precautions:	-	
		Prevent contamination of open water ways and sewage sys Avoid contamination of ground water.	tem.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

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Solubility in solvents:



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	Color:	bright yellow		
	Odor:	odorless		
	Odor threshold:			
		No information available.		
	pH-Value:			
		not available		
	Melting temperature:	65 - 80°C		
	Boiling temperature:	not determined		
		not determined		
	Flash point:	> 300°C		
	Evaporation rate:	No information available.		
	Elammability (aplid gap);	300°C		
	Flammability (solid, gas):	300 C		
	Upper explosion limit:	no information available		
	Lower explosion limit:			
	Lower explosion limit:	no information available		
	Vapor pressure:			
		not determined		
	Vapor density:			
		No information available.		
	Density:			
		not applicable		
	Solubility in water:	insoluble		
	Coefficient of variation (n- Octanol/Water):			
		not determined		
	Auto-ignition temperature:			
		not applicable		
	Decomposition temperature:	No doto ovailabla		
		No data available.		
	Viscosity, dynamic:	not available		
	Evolopivo proportios:			
	Explosive properties:	Product does not present an explosion f	nazard.	
	Oxidizing properties:			
		no information available		
	Bulk density:	ca. 300 kg/m3		
). 2.	Further Information	č		
	Salubility in achienter			

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	Viscosity, kinematic			
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			
	Other information:			
10.	Stability and Poactivity	No further information.		
10.1.	Stability and Reactivity Reactivity			
10.1.	Reactivity	Stable if used according to specifi	cations.	
10.2.	Chemical Stability			
		Stable if used according to specifi	cations.	
10.3.	Possibility of Hazardous Reactions		(1
10.4.	Conditions to Avoid	Reacts with strong reducing agen	ts: development of r	iyarogen
10.4.				
	Conditions to avoid:	Avoid temperatures above 60 ${ m C}$: c	auses a blocking re	spectively
		sintering of the platelets.	j	ļ
	Thermal decomposition:			
		No further information available.		
10.5.	Imcompatible Materials	Strong reducing agents.		
10.6.	Hazardous Decomposition Products			
	·	None if stored and handled accord	ding to specification	S.
10.7.	Further Information			
11.	Toxicological Information			
11. 1.	Information on Toxicological Effects			
	Acute Toxicity			
	LD50, oral:	> 5000 mg/kg (rat)		
	LD50, dermal:	> 10000 mg/kg (rabbit)		
	LC50, inhalation:			
		No information available.		
	Primary effects			
	Irritant effect on skin:			
		Non irritating		
	Irritant effect on eyes:	Slight irritant effect		
	Inhalation:	Sign intan ciect		
	n malalion.	Non irritating.		
		-		

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Revise	a edition: 01.04.2014	Version: 3.2 No information available	Printed: 02.04.201
	Sensitization:	Not known.	
	Mutagenicity:		
	malagemeny.	No data available.	
	Reproductive toxicity:		
		No information available.	
	Cancerogenity:		
		No data available.	
	Teratogenicity:		
		No information available.	
	Specific target organ toxicity (STOT):	No data available.	
	Additional toxicological information:		
	Additional toxicological information.	No health impairments known or expecte specifications.	ed when used according
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:		
		No data available.	
	Daphnia toxicity:		,
		EC50: > 500 mg/l (24h, Daphnia magna,)
	Bacteria toxicity:	no information available	
	Algae toxicity:		
	Algue loxicity.	LC50: > 400 mg/l (24h)	
12. 2.	Persistency and Degradability		
		34 % (28d); biodegradable (OECD 301E	E)
12. 3.	Bioaccumulation	No information available.	
12. 4.	Moblity	No information available.	
12. 7.	moonly	No data available.	
12. 5.	Results of PBT- und vPvP Assessment		
		No data available.	
12. 6.	Other Adverse Effects		
	Water hazard class:		
		Do not let product contaminate ground w sewage system.	vater, waterways or
	Behaviour in sewage systems:		
	Further ecological effects:		
	0	VOC: < 1%	

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	AOX Value:	V0131011. 0.2	T finted. 02.04.2014	
		Product does not contain any or	ganically bound halogen.	
13.	Disposal Considerations			
13. 1.	Waste Treatment Methods			
	Product:			
		If product cannot be reused or re according to current local regula		
	European Waste Code (EWC):			
		080112 - Wastes from the manu use (MFSU) of coatings (paints, sealants and printing inks.	facture, formulation, supply and varnishes and vitreous enamels),	
	Uncleaned packaging:			
		Uncontaminated packaging may be recycled.		
	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	no nazaruous goous according		
-	ADR Class:			
		not applicable		
	Hazard no.:			
	Classification code:			
	Tunnel no.:			
	IMDG Class (sea):			
	Hazard no.:			
	EmS No.:			
	IATA Class:			
		not applicable		
	Hazard no.:			
14. 4.	Packaging Group			
	ADR/RID:			
		not applicable		
	IMDG:			
	IATA:			

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4. 5.	Environmental Hazards		
		Not classified as environmenta	lly hazardous.
4. 6.	Special Precautions for User		
		Not classified as a dangerous	good under transport regulations.
14. 7.	Transportation in Bulk according to An	nex II of MARPOL 73/78 and IBC-Code not applicable	
14. 8.	Further Information		
		Not classified as a dangerous	good under transport regulations.
15.	Regulatory Information		
15. 1.	Safety, Health and Environmental Regu	lations/Legislation specific for the Substan	ce or Mixture
	Water hazard class:		
		1, slightly hazardous for water	
	Local regulations on chemical acci	dents:	
		Not listed.	
	Employment restrictions:		
	Restriction and prohibition of applic	cation:	
	Technical instructions on air quality	/:	
15. 2.	Chemical Safety Assessment		
		Shellack complies with the defi the mandatory REACH Registr	nition of a polymer: exempted from ation.
15. 3.	Further Information		
16.	Other Information		
		This product should be stored,	handled and used in accordance

with good hygiene practices and in conformity with any legal 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. This Safety Data Sheet replaces that of 30.07.2007.