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

67300 Plexisol® P 550-40

KREMER

Revise	d edition: 24.02.2016		Version: 10.1	Page Printed:	1 01.03.2016	
1.		Substance/M	ixture and of the Company/Under		01.03.2010	
1. 1.	Product Identifier			5		
	Product Name:		Plexisol® P 550-40			
	Article No.:		67300			
1. 2.	Relevant identified Uses of the Substance or Mixture and Uses advised against					
	Identified uses:		, i i i i i i i i i i i i i i i i i i i			
			Binding agent			
	Uses advised against:					
. \$.	Details of the Supplier of t	he Safety Data She	eet Producer!I " porter#			
	Company:		Kremer Pigmente GmbH & Co. KG			
	Address:		Hauptstr. 41-47, 88317 Aichstetten,	Germany		
	Tel./Fax.:		Tel +49 7565 914480, Fax +49 7565	5 1606		
	Internet:		www.kremer-pigmente.de			
	EMail:		info@kremer-pigmente.de			
	Importer:					
1. '.	% " ergency &o.					
	Emergency No.:		+49 7565 914480 (Mon-Fri 8:00 - 17	:00)		
2.	Hazards Identificati	on		,		
2. 1.		(lassification of the Substance or Mixture				
	Classification according to EC					
	Regulation 1272/2008					
			Flammable liquids, category 2 Specific Target Organ Toxicity (singl Hazardous to the aquatic environme			
		H225	Highly flammable liquid and vapour.			
		Cat.: 2 H336	May cause drowsiness or dizziness.			
		Cat.: 3				
		H411	Toxic to aquatic life with long lasting	effects.		
		Cat.: 2				
	Classification according Regulation No. 67/548					
	Flammable (F)	R11	Highly flammable			
	Irritating (Xi)	R38	Irritating to skin.			
	Hazardous to the environment (N)	R50	Very toxic to aquatic organisms.			
		R53	May cause long-term adverse effects	-	nvironment.	
		R67	Vapours may cause drowsiness and	aizziness.		
	Safety Phrases:					
	Possible Environmenta	I Effooto:				

Possible Environmental Effects:

2.2.) abel %le " ents

Classification according to EC

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



levised	d edition: 24.02.2016		Version: 10.1		Page Printed: 01.03.20 ²
	Regulation 1272/20	08			
	Hazard designation.				
			\wedge		
			$\langle \mathfrak{W} \rangle$	GHS02	2-2
			$\overline{}$		
			\wedge		
			$\langle \cdot \rangle$	GHS07	7
			Y		
			¥	GHS09	
				GHSUS	
	Signal word:				
			Danger		
	Hazard designation.				
	-	H225	Highly flammable	liquid and	vapour.
		H336	May cause drows		
		H411	Toxic to aquatic li		
		EUH066	Repeated exposu	re may ca	use skin dryness or cracking.
	Safety designation:				
		P273	Avoid release to t		
		P280 P303+P361+P353			thing/ eye/ face protection.
		F303+F301+F353	Rinse skin with w		immediately all contaminated clothing
		P312			sician if you feel unwell.
		P403+P235	Store in a well ver	•	•
		P501	Dispose of conter international regu		ner according to regional, national an
	Hazardous compon	ents for labelling:			
			Naphtha, hydrotre		
			Naphtha, hydroge Cyclohexane	en treateu,	low boiling point.
. \$.	* ther +a, ards				
			Contains n-Butyln	nethacryla	te: can cause allergic reactions.
8.	Composition/Info	ormation on Ingre	dients		
. 1.	Substance				
. 2.	Mixture				
	Chemical Characterization:		Solution of an acrylic polymer.		
	Hazardous Ingredients:				
		09 (F, Xn, N; R11-65	-66-67- 1	5-45 %	CAS-Nr: 68920-06-9
	51/53; H225-304-33	6-411)			EINECS-Nr: 920-750-0
					EC-Nr:
	Hydrocarbons, C6-0	C7 (F,Xn,N; R11-65-6	6-67- 1	5-45 %	CAS-Nr: 92128-66-0
	51/53; H225-304-33				EINECS-Nr: 926-605-8

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

67300 Plexisol® P 550-40



Page 3

evised	edition: 24.02.2016	Version: 1	0.1	Printed:	01.03.201			
				EC-Nr:				
	Cyclohexane (Xn,F,N; R11-38-50 H225-304-315-336-400-410))/53-65-67;	10-30 %	CAS-Nr: 110-82-7 EINECS-Nr: 203-806-2 EC-Nr: 601-017-00-1				
	n-Hexane (Xn,F,N; R11-38-48/20 H225-304-315-336-361f-373-411		0.1-3 %	CAS-Nr: 110-54-3 EINECS-Nr: 203-777-6 EC-Nr: 601-037-00-0				
	n-Butyl methacrylate (Xi; R10-36/ 315-317-335); REACH RegNr. (28		0.1-1.0 %	CAS-Nr: 97-88-1 EINECS-Nr: 202-615-1 EC-Nr:				
	Methacrylic acid (C; R21/22-35; H 314-335); REACH RegNr. 01-2		0.1-1.0 %	CAS-Nr: 79-41-4 EINECS-Nr: 201-204-4 EC-Nr:				
	Additional information:							
l.	First Aid Measures							
1.	Description of the - irst . id Measures							
	General information:							
	Remove contaminated clothes immediately. Seek medical attention in case of complaints.							
	After inhalation:							
			Supply fresh air and keep patient calm. Get medical help.					
	After skin contact:							
		with plenty o	ntaminated cloth f water and soa kin irritation cons		f immediate			
	After eye contact:							
		Rinse open o Consult phys Remove con	sician.	v of water for at least 15 m	inutes.			
	After ingestion:							
		Do not induc	e vomiting. Cor	nsult physician immediatel	у.			
2.	Most i " portant Sy " pto " s and %ffect	s/ both . cute and Delay	ed					
	Symptoms:							
				sition: headache, coughing s, unconsciousness.	g, difficulty			
	Effects:	NI- 0 - 1	farma d'a ser "					
¢	Indication of any L. " a dista Madis-1		formation availa	adie.				
\$.	Indication of any I " " ediate Medical	. ttention and special Ure	eat ent needed					
	Treatment:	If vomiting o	ccurs after inge	stion, aspiration into the lu ne	ings can kt page:			

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



			Page 4
Revise	d edition: 24.02.2016	Version: 10.1	Printed: 01.03.2016
		occur which can cause a chemica	al pneumonia or suffocation.
		Treat symptomatically.	
		Risk of aspiration of stomach flus	hing and vomiting.
5.	Fire-Fighting Measures		
1. 1.	%xtinguishing Media		
	Suitable extinguishing media:		
		Foam, CO2, dry extinguishing po	
		Use extinguishing media for surro	ounding fire.
	Unsuitable extinguishing media:		
		Water	
1. 2.	Special +a, ards arising fro " the Substand	ce or Mixture	
	Special hazards:		
		In case of fire: formation of carbo decomposition products.	n oxides and organic
		Flammable liquid.	
		Risk of bursting of closed contain	ers due to strong heating.
		The vapor is heavier than air, spr distant ignition is possible.	eads along the ground and
		Risk of bursting of closed contain	ers due to strong heating.
1. \$.	. dvice for - irefighters		
	Protective equipment:		
		Wear self-contained respiratory p	protective device.
	Further information:		
		Avoid contamination of sewage s	ystem, open water ways and
		ground water. Cool exposed containers with wa	ter sprav
6.	Accidential Release Measures		
0. 3. 1.		pat and % " arganay Dragaduraa	
J. I.	Personal Precautions/ Protective %2uip " e		
	Personal precautions:	Provide adequate ventilation. Kee	an away from sources of ignition
		Keep away from sources of heat	
		Wear protective clothing.	
		Keep unprotected persons out of	danger zone.
		Respiratory protection in case of	formation of vapors/dust/aerosol.
3. 2.	%nviron " ental Precautions		
	Environmental precautions:		
		Prevent contamination of soils, dr	rains and surface water.
3. \$.	Methods and Material for (ontain " ent and	d (leaning Up	
	Methods and material:		
		Large spills:	
		Larger amounts should be pumpe	•
		Vapors in combination with air ca Small spills:	n iorm an explosive compound.
		Contain with absorbent material (sand, diatomaceous earth, next page: 5

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



			Page	5		
Revised edition: 24.02.2016		Version: 10.1	Printed:	01.03.2016		
		universal absorbent, Oil Dri) and dispo	ose accordingly.			
3. '.	Reference to other Sections					
		Protective clothing, see Section 8.				
7.	Handling and Storage					
4. 1.	Precautions for Safe +andling					
	Instructions on safe handling:					
		Provide adequate ventilation.	. ,			
		Provide adequate ventilation, also in father than air).		s are heavier		
		Open and handle container with care.				
	Hygienic measures:					
		Do not eat or drink during work. Do no	ot smoke.			
1.0		Wash thoroughly after handling.				
4. 2.	(onditions for Safe Storage/ including any Inco " patibilities					
	Storage conditions:		! ! !!	u (ile (e el		
		Store in tightly sealed containers in a location.	cool and well ve	ntilated		
		Protect product from direct sunlight.				
	Requirements for storage areas and containers:					
		Store product in closed containers.				
	Information on fire and explosion protection:					
		Keep away from sources of ignition - on measures to prevent electrostatic disc		ake		
		Vapors may form an explosive mixture	ə with air.			
		Cool exposed containers with water.				
		Even the empty containers may still be	e dangerous.			
	Storage class (VCI):					
	Further Information:					
4. \$.	Specific %nd Use s#					
	Further information:					
		No information available.				
8.	Exposure Controls/Personal Prot	tection				
5. 1.	Para " eters to be (ontrolled					
	Parameters to be controlled (DE):					
		n-Hexane, CAS 110-54-3: ELV (TRGS ml/m3; 8(II); Y	S 900)) 180 mg/i	m3; 50		
		Y: No teratogenic risk when the expos biological limit values (BLV) are adher	red to.	. ,		
		Cyclohexane, CAS 110-82-7: ELV (TF ppm (4)	२GS 900): 700 n	ng/m3; 200		
		Top limit: 4 (II)				
	Parameters to be controlled:					

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



			Page		
Revise	ed edition: 24.02.2016	Version: 10.1	Printed: 01.03.201		
		n-Hexane, CAS 110-54-3: TLV (E Cyclohexane, CAS 110-82-7: TW ppm	,		
	Derived No-Effect Level (DNEL):				
	Predicted No-Effect Concentration (PNEC):				
	Additional Information:				
		Biological limit value: n-Hexane: 5 mg/l (urine; end of ex	vpoquro or shift)		
5. 2.	%xposure (ontrols	n-nexane. 5 mg/i (unne, end or ez			
	Technical protective measures:				
		Adequate ventilation.			
	Personal Protection				
	General protective measures:				
		Do not inhale vapor/dust.			
		Avoid contact with eyes and skin.			
		Keep away from foodstuffs and d during work. Wash hands before			
	Respiratory protection:				
		Respiratory equipment required ir filter type A.	າ case of insufficient ventilation,		
	Hand protection:				
		Protective gloves (EN 374)			
		Protective gloves should be chang intensive contact with the product			
		Each work area must have adequ			
	Protective glove material:				
		Nitrile rubber (480 min, 0.4 mm)			
		Viton(R) (480 min; 0.7 mm)			
	Eye protection:	Tighth, fitting opfot, googles (FN)	100)		
		Tightly fitting safety goggles (EN	166).		
	Body protection:	Protective clothing, chemical resis	stant safaty shoas		
	Environmental precautions:	r roleelive clouning, chemical resk	san salety shoes.		
9.	Physical and Chemical Propertie	25			
7. 1.	Infor " ation on 6asic Physical and (he " ical Properties				
	Form:	liquid			
	Color:	colorless			
	Odor:	gasoline-like			
	Odor threshold:				
		No information available.			

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

67300 Plexisol® P 550-40

Other information:



Page 7

			Page	7
Revised	d edition: 24.02.2016	Version: 10.1	Printed:	01.03.2016
		not applicable		
	Melting temperature:	- 3°0 >		
	Boiling temperature:	85-125℃ (1013 hPa) (Naphtha)		
	Flash point:	-5℃ (DIN 51755) (Naphtha)		
	Evaporation rate:			
		not applicable		
	Flammability (solid, gas):	> 200℃ (DIN 51794) (Naph tha) not available		
	Upper explosion limit:	8.3 Vol% (Naphtha)		
	Lower explosion limit:	0.7 Vol% (Naphtha)		
	Vapor pressure:	100 hPa (20℃) (Naphtha)		
	Vapor density:			
		No information available.		
	Density:	0.84 g/cm3 (20°C)		
	Solubility in water:	practically insoluble		
	Coefficient of variation (n- Octanol/Water):			
		not determined		
	Auto-ignition temperature:	No information available.		
	Decomposition temperature:	No data available.		
	Viscosity, dynamic:	2800-5400 mPa.s (20℃)		
	Explosive properties:	not available		
	Oxidizing properties:			
		no information available		
	Bulk density:			
		not determined		
7.2.	- urther Infor " ation			
	Solubility in solvents:	Esters, ketones and chlorinated hydrocart	ons	
	Viscosity, kinematic	808 mm2/s (40°C)		
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			

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

67300 Plexisol® P 550-40



Page 8 Version: 10.1 Revised edition: 24.02.2016 Printed: 01.03.2016 10. **Stability and Reactivity** 18.1. Reactivity No decomposition if used according to specifications. 18.2. (he "ical Stability Stable if used according to specifications. 18.\$. Possibility of +a, ardous Reactions Reacts with strong oxidants. 18.'. (onditions to . void Conditions to avoid: Avoid high temperature. Avoid ignition sources. Thermal decomposition: No decomposition if used according to specifications. 18.1. I " co " patible Materials Oxidizing agents. 18.3. +a, ardous Deco " position Products Thermal decomposition may yield toxic and irritating fumes, predominantly consisting of n-butyl methacrylate. - urther Infor " ation 18.4. 11. **Toxicological Information** 11.1. Infor " ation on 0oxicological %ffects Acute Toxicity LD50, oral: > 2000 mg/kg (rat; Naphtha) > 2000 mg/kg ((rabbit; Naphtha) LD50, dermal: > 5 mg/l (rat; Naphtha) LC50, inhalation: Primary effects Irritant effect on skin: Longterm contact may cause dry skin. Prolonged and/or repeated skin contact can cause irritations. Irritant effect on eyes: Irritating (OECD 405) Inhalation: No information available. Ingestion: No information available Sensitization: No information available. Mutagenicity: No data available.

Reproductive toxicity:

No data available.

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

67300 Plexisol® P 550-40



Page 9

Revised edition: 24.02.2016		Version: 10.1 Printed: 01		
	Cancerogenity:			
		No data available.		
	Teratogenicity:	No information available.		
	Specific torget ergen toxicity (STOT):	no mornation available.		
	Specific target organ toxicity (STOT):	Single exposure: may cause dro	owsiness or dizziness.	
		Repeated exposure: no informa		
	Additional toxicological information:			
		Vapors have narcotic effects an dizziness, vomiting, unconsciou	d can cause headache, tiredness, sness and cramps.	
		Inhalation of fumes/vapors can tract.	cause irritation of the respiratory	
12.	Ecological Information			
12. 1.	. 2uatic 0oxicity			
	Fish toxicity:			
		No data available.		
	Daphnia toxicity:	5050 0 mm// (40h Damhaia ma		
		EC50: 3 mg/l (48h, Daphnia ma	gna)	
	Bacteria toxicity:	no information available		
	Algae toxicity:			
	Algae loxicity.	No information available.		
2. 2.	Persistency and Degradability			
		No information available.		
2. \$.	6ioaccu " ulation			
	N. 1 114	Bioaccumulation is not to be exp	pected.	
12. '.	Mobility	No information available.		
12. 1.	Results of P609 und vPvP . ssess " ent			
		Not applicable.		
2. 3.	* ther . dverse %ffects			
	Water hazard class:			
		1, slightly hazardous		
	Behaviour in sewage systems:			
	Further ecological effects:			
		Do not let product enter waterwa	ays or sewage system.	
	AOX Value:			
13.	Disposal Considerations			
1\$. 1.	: aste 0reat " ent Methods			
	Product:			
		The waste is hazardous		

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



Revise	d edition: 24.02.2016	Version: 10.1	Page 10 Printed: 01.03.2016
	European Waste Code (EWC):		
		080111 - Waste paint and varnish o other dangerous substances	containing organic solvents or
	Uncleaned packaging:	Uncontaminated packaging may be Packaging may be disposed of in th product.	-
	Waste Code No.:		
14.	Transport Information		
1'.1.	U& &u " ber		
	ADR, IMDG, IATA	1866	
1'.2.	U& Proper Shipping &a " e		
	ADR/RID:	HARZLÖSUNG, ENTZÜNDBAR	
	IMDG/IATA:	RESIN SOLUTION, FLAMMABLE	
1'.\$.	Oransport +a, ard (lasses		
	ADR Class:	3	
	Hazard no.:	3	
	Classification code:	F1	
	Tunnel no.:	D/E	
	IMDG Class (sea):	3	
	Hazard no.:	3	
	EmS No.:	F-E, S-E	
	IATA Class:	3	
	Hazard no.:	3	
1'.'.	Pac;aging <roup< td=""><td></td><td></td></roup<>		
	ADR/RID:	11	
	IMDG:	11	
	IATA:	11	
1'.1.	%nviron " ental +a,ards		
		Labelling according 5.2.1.8 ADR/R Labelling according 5.2.1.6.3 IMDG	G: fish and tree
		Classification as environmentally ha IMDG: yes	-
11.0	Special Drecourtiens for Llear	Labelled with "P" according 2.10 IN	iDG: yes
1'.3.	Special Precautions for User	Warning: Inflammable liquids.	
1'.4.	Oransportation in 6ul; according to .nne	• •	
		not evaluated	
1'.5.	- urther Infor " ation		

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



			Page	11		
Revised	d edition: 24.02.2016	Version: 10.1	Printed:	01.03.2016		
15.	Regulatory Information					
11. 1.	Safety/ +ealth and %nviron " ental Regulations!) egislation specific for the Substance or Mixture					
	Water hazard class:					
		1, slightly hazardous for water				
	Local regulations on chemical accident	ts:				
	Employment restrictions:					
		The employment restrictions for you the Youth Employment Protection L observed.				
		The employment restrictions for exp accordance with the Maternity Prote are to be observed.				
	Restriction and prohibition of application	on:				
	Technical instructions on air quality:	5.2.5				
11. 2.	(he " ical Safety . ssess " ent					
		A Chemical Safety Assessment has product.	not been carried	out for this		
11. \$.	- urther Infor " ation					
		Listed in:				
		EINECS (EU), TSCA (US), AICS (A ECL (KR), METI (JP), IECSC (CN),		ICCS (PH),		
16.	Other Information					
		This product should be stored, hand with good hygiene practices and in regulations. This information contain present state of knowledge and is ir 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 shoul	y legal d on the e our product d be		