				Sa	fety Data Sheet				
SECTION 1 - Product and Company Identification					Effective Date: 1/20/20				
Manufacturer: AKZO Nobel Polymer Chemicals LLC Product Name: PERKADOX CH-50 (Keligrit Catalyst) Chemical Name: Dibenzoyl peroxide, powder, 50%				:)	Emergency Phone 1-800-828-7929, Chicago, IL USA 1-312-544-7188, Chicago, IL USA 1-800-424-9300 (Chemtrec 24 Hr. Emer.) Prepared By: AKZO Nobel Polymer Chemicals				
		with dicyclo	hexyl phthala	te	Product Use Description	Curing Agent			
Section 2 - Ha	azards Identifi	cation			1	DANGER!			
HMIS Rating		Health - 2 Flammability - 2		Reactivity - 3	_				
NFPA Codes:		Health - 2	Flammability - 2		Reactivity - 3		$\mathbf{v}$ $\mathbf{v}$ $\mathbf{v}$		
GHS Classification:		Organic Peroxides, Type D Reproductive toxicity, Category 2		Eye irritation, Category 2 Acute aquatic toxicity, Ca	B Itegory 1	Skin sensitization, Category 1 Chronic aquatic toxicity, Category 3			
Hazard State	ment:	H242 Heating ma cause fire			H317 May cause an allergic skin reaction H320 Causes eye irritation				
		H361 Suspect	ted of damaging	g fertility or the	e unborn child 🛛 H400 Ve	ry toxic to aqua	tic life w/long lasting effects		
Section 3 - Co	omposition/Inf	formation on I	Ingredients						
Dibenzoyl peroxide 94-36-0 Org. Perox. B Eye Irrit. 2B; Skin Sens. 1: Aquatic Actu			s; H241 H320 H317 e 1; H400	50-70					
Dicyclohexylphthalate			84-61-7	M-Factor (Ac Skin Sens. 1: Repr. 2; H362 Aquatic Acute Aquatic Chro	rute): 10 H317 1 e 3; H402 nic 3; H412	30-50			
4. First Aid N	leasures: Gene	eral Advice: Mo	ove out of dang	erous area, co	nsult a physician, show SD	S to doctor.			
Eyes: Skin:	<ul> <li>yes: Immediately flush with plenty of water. If easy to do, contact lenses should be removed during the flushing, by trained personnel. Hold the eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water. Get medical attention if irritation persists.</li> <li>ikin: Immediately wash skin w/soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.</li> </ul>								
Ingestion: Inhalation:	<ul> <li>gestion: Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel. The patient should lie on their left side while vomiting to reduce the risk of aspiration. Never give anything by mouth to an unconscious or convulsing person.</li> <li>ihalation: Remove to fresh air. If not breathing, give artificial respiration. Oxygen may additionally be given, by trained personnel, if it is available. Get medical attention if symptoms occur.</li> </ul>								
Indication of	any immediat	e medical atte	ention and spec	ial treatment	needed: Persons with pre-	existing skin, re	spiratory, and/or central nervous		
system disea of this produ- likely to caus information.	se may be at in ct during induc e aspiration, su Treat patient s	icreased risk if ed emesis can ich as gastric la ymptomatical	exposed to this result in lung ir avage after end ly.	s material. Con njury. If evacua lotracheal intu	ndition of the patient shoul ation of stomach contents bation. Contact a Poison C	d be carefully m is considered ne ontrol Center fo	nonitored. Aspiration ecessary, use method or additional treatment		
Section 5 - Fire Fighting Measures Extinguishing Media: Water spray, foam, sand, dry chemical powder, CO2.									
Unsuitable en Protective eq	xtinguishing m quipment: Firef	edia: Halons, fighters must v	Hazardous deco	omposition/co ant protective of	equipment. Wear approve	Carbon monoxi d respirator and	de, Benzoic acid, Benzene. I protective gloves.		
re-ignition. C courses. Afte	re-ignition. Cool closed containers with water. Water used to extinguish a fire should not be allowed to enter the drainage system or water courses. After a fire, ventilate thoroughly the area and soak with water, clean the walls and metallic surfaces.								
Fire and explosion hazard: CAUTION: reignition may occur. Decomposition under effect of heating (see also Section Hazardous decomposition products). If involved in a fire, it will support combustion. Dust explosion hazard. In case of fire and/or explosion do not breathe fumes.									

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#### Section 6 - Accidental Release Measures

 Personal precautions: Do not breathe dust. Avoid contact with skin and eyes. For personal protection, see Section 8.

 Environmental precautions: Do not allow to enter drains or water courses. Methods and material for containment and cleaning up: Stop leakage if possible. Eliminate all sources of ignition, and do not generate flames or sparks. First moisten with water. Sweep up and put it into a container of disposal. Avoid dust generation. Keep contents moist. The waste should NOT be confined. Flush surroundings with large amounts of water and soap. Other Information: CAUTION: resignation may occur. Evacuate personnel to safe area.

 Section 7 - Handling and Storage
 Precautions for safe handling: Never weigh out in the storage room. When using do not eat, drink or smoke. Do not breathe dust. Handle in well ventilated areas. Eliminate all sources of ignition, and do not generate flames. Eliminate all sources of ignition, and do not generate flames.

away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Keep product

and emptied container away from heat and sources of ignition. Confinement must be avoided. Do not allow to dry out. Avoid contact with

skin and eyes. Avoid incompatible materials (See Section 10). Fire & explosion prevention: Avoid dust generation. Dust explosion possible in

the presence of air. Use non-sparking tools in area's where explosive dust air mixtures may occur. Do not cut or weld on or near this container even when empty. **Conditions for safe storage:** Store in accordance with local/national regulations. Keep away from food, drink and animal feeding stuffs. Store in a dry well ventilated place away from sources of heat and direct sunlight. Store separate from other chemicals. Keep only in the original container. **Storage:** For maximum quality store below 25°C. **Other Information:** It is recommended to use electrical equipment of temperature group T3. However, auto ignition can never be excluded. Wash hands thoroughly after handling or contact. Keep work clothes separate and do not take them home.

#### Section 8 - Exposure Controls/Personal Protection

Control parameters: Ensure good ventilation and local exhaustion of the working area. Explosion proof ventilation recommended.

Personal protection: Respiratory - Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment

(respirator with Filer P1). Hand: Wear suitable protective gloves of neoprene or synthetic rubber. Eye: Wear eye/face protection.

Skin and body: Wear suitable protective clothing. Other information: Emergency- shower and facilities for rinsing eyes must be accessible. Launder clothes before reuse.

OSHA TLV/TWA	5 mg/m³	ACGHI TLV/TWA	5 mg/m³			
NIOSH REL/TWA	5 mg/m³	NIOSH IDLH	1500 mg/m <sup>3</sup>			
Section 9 - Physical and Ch	Flammability (solid, gas): Decomposition products may be flammable					
Appearance: White Powde	r	Odor: Faint		Oxygen Content: 3.3% pH: Not		pH: Not determined
Boiling Point: Decomposes		Melting/Freezing Point: Decomposes		Relative Vapor Density: N/A		
Flash Point: N/A		Volatile by Weight: 18%		Solubility in Water: @ 20°C insoluble		
Viscosity: N/A		Specific Gravity: 1.23 (20°C/68°F)		Density: 1230 kg/m <sup>3</sup> (20°C/68° F)		
Oxidizing Properties: N/A		Bulk Density: 640 kg/m <sup>3</sup> @ 20°C		Partition Coefficient: n-octane/water not determined		
Explosive Properties: Not explosive		Evap. Rate: (Butyl Acetate=1): Slower th		nan Butyl Acetate		Organic peroxides: 49-51%
SADT: 55 °C		Auto ignition temperature: Test method N/A			SADT: 55	
Upper/lower flammability of		Volatile%: Not determined.				

Section 10 - Stability and Reactivity

Conditions to avoid: Do not allow to dry out; confinement must be avoided; heat flames and sparks; for safety, store below 25°C (77°) Materials to avoid: Contact with incompatible materials will result in hazardous decomposition. For queries regarding the suitability of other materials please contact the supplier. Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment. Acids and bases, iron, copper reducing agents, heavy metals, rust.

Hazardous decomposition products: Benzoic acid, Carbon oxides

Thermal decomposition: SADT is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT. Reactivity: Stable under normal conditions. Chemical stability: Stable under recommended storage conditions. Self-accelerating decomposition from the second provide the second storage conditions.

Section 11 - Toxicological Information No experimental toxicological data on the preparation as such available. The following data are

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		applicable to th	plicable to the ingredient(s) listed below:				
Dicyclohexyl	ohthalate: Acute toxicity	Oral LD50 >200	00 mg/kg (rat)	>2000 mg/kg (rat)			
Germ cell mutagenicity Not mutagenic (in vitro)			Irritation to Skin: Slight in	Eye expected to be: Irritation to eyes			
Sensitization	Sensitizing (skin) (LLNA test)	(mouse)	Genotoxicity No evidence of genotoxic effect in vitro				
Carcinogenici	ty/Mutagenic data Negative	e (Ames test)					
Chronic toxici	ty/Carcinogenicity sub chro	nic (90 days) or	l toxicity No Observed Adverse Effect Level (NOAEL); 50 mg/kg/day (rat)				
Development	al toxicity; No Observed adve	erse Effect Leve	l (NOAEL); 16-21 mg/kg/da	y (oral) (rat)			
Other toxicol	ogical Information cytogene	tic test: Negativ	e not clastogenic (in vitro cytogenetic test)				
Dibenzoyl per	roxide, 78%: Acute toxicity		<b>Oral LD50</b> >5000 mg/kg (rat)		Inhalation LC50 >24300 mg/m <sup>3</sup> (rat), dust		
Germ cell mu	tagenicity Not mutagenic		Irritation, Skin Minimally irritating		Eye Irritating to eyes. (rabbit)		
Sensitization	Sensitizing (skin)		Genotoxicity No evidence of genotoxic effects in vivo and/or vitro				
Chronic toxici	ty/Carcinogenicity 29 days,	No Observed A	verse Effect Level (NOAEL); 1000 mg/kg/day (NOAEL); 500 mg/kg/day (oral)				
No experimen	ital ecological data are availa	able on the prep	paration as such. The follow	ing data are app	licable to the ingredient(s) listed:		
Section 12 - E	cological Information Ecotor	xicity:	No experimental ecologica	al data are availa	ble on the preparation as such. The		
following data	a are applicable to the ingred	lient(s) listed be	elow:				
Dicyclohexyl p	ohthalate: Ecotoxicity		<b>fish</b> 96 h-LC50: >2 mg/l (m	ax. attainable co	oncentration) (Oryzias latipes)		
<b>daphnia</b> 48 h-	EC50: >2 mg/l (max. attainal	ble concentratio	on) (Daphnia magna)	algae 3 days:	?2 mg/l (Pseudokirchneriella subcapitata)		
bacteria Activat	ted sludge; 3h-No Observed Effe	ect Concentration	(NOEC) >100mg/l	max. attainab	ble concentration)		
Fate	Degradation Biotic Readily I	biodegradable.	Bioaccumulation Not expect		ted to bioaccumulate.		
Fate	Low Pow = 4.82 at 25°C	Low Koc = 3.46	estimated)	estimated) Bio Concentration Factor (BCF) = 85 (estimated)			
Other Inform	ation May cause long-term a	idverse effects i	n the aquatic environment				
Dibenzoyl per	oxide, 78%: Ecotoxicity	<b>fish</b> 96h-LC50:	0.06 mg/l daphnia 48	n-EC50: 0.11 mg	/l (Daphnia magna)		
algae 72h-EC5	50: 0.06 mg/l <b>bacteria</b> Activ	ated sludge res	piration inhibition test EC5	0: 35 mg/			
Fate	Degradation Abiotic Half-lif	e: 2.4 hrs. at 50	°C Degradatio	n Biotic Inherent	ly biodegradable.		
Bioaccumulat	ion Bio Concentration Facto	r (BCF): 66.6					
Fate	<b>Koc =</b> 3.8 at 22°C	Other Informa	<b>tion</b> Very toxic to aquatic c	rganisms.			
Section 13 - D	isposal Considerations	Product: Due t	o high risk of contaminatio	n recycling/reco	very is not recommended. Waste disposal		
in accordance	with regulations (most prob	ably controlled	incineration). Contaminat	ed packaging: A	ccording to local regulations. Emptied		
container is ei	mptied. Do not wash residue	es into drains or	other waterways.	Other info: Fo	or further advice contact manufacturer.		
Section 14 - T	ransport Information						
Land Transport			<u>Sea Transport (IMO/IMDG-code)</u>		<u>Air Transport (ICAO-TI/IATA-DGR)</u>		
Proper Shipping Name			Proper Shipping Name		Proper Shipping Name		
Organic perox	xide type D, solid		Organic peroxide type D, solid		Organic peroxide type D, solid		
(Dibenzo	yl peroxide, 50%)		(Dibenzoyl peroxide)		(Dibenzoyl peroxide)		
Transport Haz	zard Class 5.2		Transport Hazard Class 5.2		Transport Hazard Class 5.2		
UN Number 3	106		UN Number 3106		UN Number 3106		
TREM-Card or	r <b>ERG number</b> NA ERG No. 14	45	<b>EMS</b> F-J, S-\$		Other Information Label(s): 5.2		
Required Lab	<b>els</b> 5.2		Marine Pollutant yes				
Other Inform	ation This product does not	contain	Other Information Label(s): 5.2				
an environ	mentally hazardous substand	ce per					
49 CFR 172-101, Appendix A.							
Section 15 - R	egulatory Information	Products and c	or components listed below	nponents listed below are subject to the following:			
CERCLA Hazardous Substance Yes			New Jersey R-T-K Hazard Sub.		Yes		
Penn. Hazardous Substance list Yes			US Toxic Substance Cont. Act (TSCA)		Yes		
Non-Domestic Subst. List-Canada No			Domestic Substance List-Canada		Yes		
California Hazardous Substances Yes			Connecticut Hazardous Mat. Survey		Yes		
Illinois Toxic Subst. Disclosure to Es Yes		Yes	Massachusetts Substance		Yes		
SARA Title III, Section 313		Yes	Minnesota Hazardous Substance		Yes		

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Rhode Island Hazardous	Substance Yes		
Hazard Classes:			
Description	Applicable	Description	Applicable
EPA Immediate health	Yes	EPA Delayed health	Yes
EPA Fire	Yes	EPA Pressure	No
EPA Reactive	Yes	EHS Material	No
Hazard Rating Source	HMIS		
WHMIS Hazard classes	C,D-2A,D-2B,F		
Other Regulatory Inform	<b>ation</b> This product has b	een classified in accordance with	the hazard criteria of the Controlled Products Regulations
and the SDS contains all o	of the information requir	ed by the Controlled Product Re	gulations.
Section 16. Other Inform	ation		
Workers using this produ	ct should read and unde	rstand this SDS and be trained in	the proper use of this material. This SDS has been
prepared in accordance v	vith federal OSHA Hazard	Communication Standard.	
PERKADOX: This is a regis	tered trademark of Akzo	Nobel Chemicals BV or any of it	s affiliated companies in one or more territories in the
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