Safety Data Sheet

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SECTION 1 -	Product and Co	ompany Ident	ification		Effective Date: 1/20/20					
Manufacturer: AKZO Nobel Polymer Chemicals LLC					Emergency Phone		.7929, Chicago, IL USA .7188, Chicago, IL USA			
Product Name: PERKADOX CH-50 (Keligrout Catalyst)							9300 (Chemtrec 24 Hr. Emer.)			
		-	powder, 50%	, ,	Prepared By: AKZO Nobe		,			
with dicyclohexyl phthalate					Product Use Description: Curing Agent					
Section 2 - H	azards Identifi	cation				DANGER!				
HMIS Rating	:	Health - 2	Flammability -	· 2	Reactivity - 3	activity - 3				
NFPA Codes:		Health - 2	Flammability - 2		Reactivity - 3		<u> </u>			
GHS Classification: Organic Peroxides, Type D			Eye irritation, Category 2		Skin sensitization, Category 1					
Hazard Ctata	mant.		toxicity, Categ	ory 2	Acute aquatic toxicity, Category 1 Chronic aquatic toxicity, Category 3					
Hazard State	ment:	`	g ma cause fire ted of damagin	a fortility or the	H317 May cause an allergic skin reaction H320 Causes eye irritation eunborn child H400 Very toxic to aquatic life w/long lasting effects					
Coation 2 C	ommosition /Ind			g rerunty or the	e unborn child — H400 ve	ery toxic to aqua	tic life w/long lasting effects			
	omposition/Inf	formation on		O D D		F0.70				
Dibenzoyl pe	eroxiae			Org. Perox. B						
					Irrit. 2B; H320					
				Skin Sens. 1:						
				Aquatic Actu						
				M-Factor (Ac						
Dicyclohexyl	phthalate	84-61-7 Skin Sens.				7 30-50				
				Repr. 2; H36:	Repr. 2; H361					
				Aquatic Acut						
				Aquatic Chro						
					nsult a physician, show SD					
Eyes:	personnel. Hold the eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water.									
Skin:	Get medical attention if irritation persists. 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.									
Ingestion:			_	_			onnel. The nations should			
ingestion.	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								
Inhalatia	convulsing person. Remove to fresh air. If not breathing, give artificial respiration. Oxygen may additionally be given, by trained personnel, if it is									
Inhalation:					ation. Oxygen may additio	nany be given, t	oy trained personner, it it is			
Indication of			ntion if sympton		nooded. Daveanai+h	ovieting elder	contratory and/or control nominatory			
	-		_			_	espiratory, and/or central nervous			
· ·	•		•		ndition of the patient shou	•	·			
of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method										
likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment										
information. Treat patient symptomatically. Section 5 - Fire Fighting Measures Extinguishing Media: Water spray, foam, sand, dry chemical powder, CO2.										
	ire Fighting Me					<u> </u>				
	0 0	•		•	• ′		de, Benzoic acid, Benzene.			
		_			equipment. Wear approve					
				_			nen apply water to prevent			
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 fi	re, it will supp	ort combustion	. Dust explosio	on hazard. In case of fire ar	nd/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 or sparks. Keep 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.

SADT: 55 °C

OSHA TLV/TWA 5 mg/m ³		ACGHI TLV/TWA	5 mg/m³			
NIOSH REL/TWA 5 mg/m ³		NIOSH IDLH	1500 mg/m³			
Section 9 - Physical and Chemical Properties			Flammability (solid, gas): Decomposition products may be flammable			
Appearance: White Powder		Odor: Faint		Oxygen Conte	nt: 3.3%	pH: Not determined
Boiling Point: Decomposes		Melting/Freezing Point: Decomposes		Relative Vapor Density: N/A		
Floring Delinto N/A		\\-\ -\ \ -\ \ -\ \ -\ \ -\ \ -\ \ -\		Salubility in Water @ 20°C insaluble		

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/m³ (20°C/68°F)

Oxidizing Properties: N/A

Bulk Density: 640 kg/m³ @ 20°C

Partition Coefficient: n-octane/water not determined

Explosive Properties: Not explosive

Evap. Rate: (Butyl Acetate=1): Slower than Butyl Acetate

Organic peroxides: 49-51%

Upper/lower flammability or explosive limits: Not determined.

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°)

Auto ignition temperature: Test method N/A

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 temp: 55 °C (131 °F)

Section 11 - Toxicological Information

No experimental toxicological data on the preparation as such available. The following data are

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Dievelalan	mhahalaan Aassa Aassasa	ne ingredient(s) listed below: Doma/kg (rat) Doma/kg (rat)					
Dicyclohexyl phthalate: Acute toxicity Oral LD50 >200 Germ cell mutagenicity Not mutagenic (in vitro)			00 mg/kg (rat) Dermal LD50 >2000 mg/kg (rat) Irritation to Skin: Slight irritation Eye expected to be: Irritation to eyes				
	Sensitizing (skin) (LLNA test)	-	Genotoxicity No evidence of genotoxic effect in vitro				
	ity/Mutagenic data Negative		Genotoxicity no evidence of genotoxic effect in vitro				
			al toxicity No Observ	ved Δdverse F	ffect Leve	l (NOAEL); 50 mg/kg/day (rat)	
			-			1 (110/122), 30 mg/ kg/ day (1at/)	
	Developmental toxicity; No Observed adverse Effect Level (NOAEL); 16-21 mg/kg/day (oral) (rat) Other toxicological Information cytogenetic test: Negative not clastogenic (in vitro cytogenetic test)						
	roxide, 78%: Acute toxicity	tic test. Negativ	Oral LD50 >5000 mg/kg (rat)			Inhalation LC50 >24300 mg/m³ (rat), dust	
	stagenicity Not mutagenic		Irritation, Skin Minimally irritating			Eye Irritating to eyes. (rabbit)	
	Sensitizing (skin)						
		No Observed Ad	Genotoxicity No evidence of genotoxic effects in vivo and/or vitro lverse Effect Level (NOAEL); 1000 mg/kg/day (NOAEL); 500 mg/kg/day (oral)				
						(NOAEL); 500 mg/kg/day (oral)	
	Ecological Information Ecoto						
				Lological uata	are availa	ble on the preparation as such. The	
	a are applicable to the ingrec phthalate: Ecotoxicity	arenit(s) listeu De		mg/I (may att	ainahle co	oncentration) (Oryzias latipes)	
	-EC50: >2 mg/l (max. attaina	hle concentration				?2 mg/l (Pseudokirchneriella subcapitata)	
	ated sludge; 3h-No Observed Effe				•	, , ,	
Fate	Degradation Biotic Readily					able concentration)	
Fate	Low Pow = 4.82 at 25°C	Low Koc = 3.46				cted to bioaccumulate.	
	nation May cause long-term a		· ,		concentra	tion Factor (BCF) = 85 (estimated)	
	-	fish 96h-LC50:			· 0 11 mg	/I (Daphnia magna)	
	<u> </u>					r (Daprilla Illagila)	
Fate	Algae 72h-EC50: 0.06 mg/l bacteria Activated sludge respiration inhibition test EC50: 35 mg/ Tate Degradation Abiotic Half-life: 2.4 hrs. at 50°C Degradation Biotic Inherently biodegradable.						
	tion Bio Concentration Facto		Degit	addition bloth	c minerene	ny bioacgiadabic.	
Fate	Koc = 3.8 at 22°C	1	tion Very toxic to an	ulatic organism	ms		
	Disposal Considerations		on Very toxic to aquatic organisms. nigh risk of contamination recycling/recovery is not recommended. Waste disposal				
					_	coording to local regulations. Emptied	
	emptied. Do not wash residue	•	•	•		or further advice contact manufacturer.	
	Fransport Information	es into uranis or	other waterways.	Othe	er iiiio. 10	in further advice contact mandiacturer.	
Land Transpo	· ·	Sea Transport (IMO/IMDG-code)			Air Transport (ICAO-TI/IATA-DGR)		
Proper Shipp			Proper Shipping Name			Proper Shipping Name	
	oxide type D, solid		Organic peroxide type D, solid			Organic peroxide type D, solid	
	oyl peroxide, 50%)		(Dibenzoyl peroxide)			(Dibenzoyl peroxide)	
	zard Class 5.2		Transport Hazard Class 5.2			Transport Hazard Class 5.2	
UN Number			UN Number 3106			UN Number 3106	
	or ERG number NA ERG No. 1	45	EMS F-J, S-\$			Other Information Label(s): 5.2	
Required Lab	pels 5.2		Marine Pollutant yes			••	
	nation This product does not	Other Information Label(s): 5.2					
an environmentally hazardous substance per			(-7 -				
49 CFR 172-101, Appendix A.							
Section 15 - Regulatory Information Products and or components listed below are subject to the following:					the following:		
T			New Jersey R-T-K Hazard Sub.			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			Massachusetts Substance			Yes	
SARA Title III,		Yes	Minnesota Hazardous Substance			Yes	
Willing Section 313 Tes Willingsout Huzurdous Substance Tes							

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Rhode Island Hazardous S	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 Information This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Product Regulations.

Section 16. Other Information

Workers using this product should read and understand this SDS and be trained in the proper use of this material. This SDS has been prepared in accordance with federal OSHA Hazard Communication Standard.

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