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	Section 1	Identification of the Substance/Mixture and of the Company/Undertaking				
.1	Product Code:	701536 Destain Contrary Comple Dilyant (20)				
	Product Name:	Protein Carbonyl Sample Diluent (20X)				
.2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses	S: For research use only, not for human or veterinary use.				
1.3	Details of the Supplier of the Safety Data Sheet:					
	Company Name:	Cayman Chemical Company				
		1180 E. Ellsworth Rd. Ann Arbor, MI 48108				
	Web site address:	www.caymanchem.com				
	Information:	Cayman Chemical Company +1 (734)971-3335				
1.4	Emergency telephone nu					
1.4	Emergency Contact:	CHEMTREC Within USA and Canada: +1 (800)424-9300				
		CHEMTREC Outside USA and Canada: +1 (703)527-3887				
		Section 2. Hazards Identification				
2.1	Classification of the Subs					
	Skin Corrosion/Irritation	n, Category 2				
2.2	Label Elements:					
	GHS Signal Word: GHS Hazard Phrases:	Warning				
	H315: Causes skin irritati	ion.				
	GHS Precaution Phrases:					
	P264: Wash {hands} thoroughly after handling.					
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.					
	GHS Response Phrases:					
	P302+352: IF ON SKIN: Wash with plenty of soap and water.					
	P332+313: If skin irritation occurs, get medical advice/attention.					
	P362+364: Take off contaminated clothing and wash it before reuse.					
	GHS Storage and Disposal Phrases:					
		for Storage and Section 13 for Disposal information.				
	Adverse Human Health	Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract.				
2.3						
2.3	Effects and Symptoms:					
2.3	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin absorption.				
2.3	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin absorption. May cause eye or respiratory system irritation.				
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	Section 3. Composition/Information on Ingredients						
CAS #		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
	1310-73-2 Sodium hydroxide WB4900000 01-2119457892-27			4.0 %	215-185-5 011-002-00-6	Skin Corr. 1A: H314	
	7732-18-5 Water ZC0110000 na			96.0 %	231-791-2 NA	No GHS classifications apply.	
			Section 4. Fi	rst Aid Measu	ires		
4.1	Descrip	otion of First Aid					
	Measur	es:					
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	e oxygen by trained personnel.	
	In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion:		Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
			Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
			Section 5. Fire	Fighting Mea	sures		
5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				spray.			
Media: Use water spray to cool fire-exposed containers.							
	Unsuitable Extinguishing A solid water stream may be inefficient.						
-	Media:		N I 17 911				
5.2	Hazard	-	d No data available.				
	i lazai u	5.	No data available.				
	Flash P	94-	No data.				
		ive Limits:	LEL: No data.	UEL: No da	ta		
	-	nition Pt:	No data.	0 00			
5.3	-		s: As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	emand (NIOSH approved or	
		J	equivalent), and full protectiv	÷	-		
			Section 6. Acciden	ital Release N	leasures		
6.1	Protective Precautions,Avoid raising and breathing dust, and provide adequate ventilation.Protective Equipment andAs conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,Emergency Procedures:and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environment	, if safe to do so.		
6.3			r Contain spill and collect, as a ngTransfer to a chemical waste		al in accordance	with local regulations.	

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		Section 7. Hand	ling and Storage	
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.			
	in Handling: Avoid prolonged or repeated exposure.			
7.2	Precautions To Be Taken Keep	container tightly closed.		
	in Storing: Store	in accordance with inform	ation listed on the product insert.	
	Section &	B. Exposure Con	trols/Personal Protection	
8.1	Exposure Parameters:			
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
1310-	73-2 Sodium hydroxide	ACGIH TLV	CEIL: 2 mg/m3	
		France VL	TWA: 2 mg/m3	
		OSHA PELs	PEL: 2 mg/m3	
		Britain EH40	STEL: 2 mg/m3 ()	
8.2	Exposure Controls:			
8.2.1	Engineering Controls Use p	rocess enclosures, local e	exhaust ventilation, or other engineering controls to	control airborne
	(Ventilation etc.): levels	below recommended exp	osure limits.	
8.2.2	Personal protection equipment:			
	Eye Protection: Safety	y glasses		
	Protective Gloves: Comp	atible chemical-resistant g	ploves	
	Other Protective Clothing:Lab c	oat		
	Respiratory Equipment NIOS	H approved respirator, as	conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenan Do no	t take internally.		
			material should be equipped with an eyewash and	a safety shower.
	Wash	thoroughly after handling.		-
	No da	ita available.		
	Sectio	n 0 Physical an	d Chemical Properties	
		-	d Chemical i Topenies	
9.1	Information on Basic Physical an	-		
	Physical States:	[]Gas [X]Liquid	[] Solid	
	Appearance and Odor:	500 mM NaOH		
	pH:	No data.		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:	No data.		
	Evaporation Rate:	No data.		
	Flammability (solid, gas):	No data available.		
	Explosive Limits:	LEL: No data.	UEL: No data.	
	Vapor Pressure (vs. Air or mm	No data.		
	Hg):			
	Vapor Density (vs. Air = 1):	No data.		
	Specific Gravity (Water = 1):	No data.		
	Solubility in Water:	No data.		
	Octanol/Water Partition	No data.		
	Coefficient:			



	Autoignit		No data.					
	-	sition Temperati						
	Viscosity		No data.					
9.2	Other Info							
	Percent V		No data.					
	Molecula	r Formula & Weig	ght: NaOH 40.0					
			Section 10. Stability	/ and Reacti	vity			
10.1	Reactivity	/:	No data available.					
10.2	Stability:		Unstable [] Stable [X]					
10.3	Stability I	Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polymeria	zation:	Will occur [] Will not occur [X]				
10.4	Condition	ns To Avoid:	No data available.					
10.5	Incompat	ibility - Materials	strong oxidizing agents					
	To Avoid							
10.6	Hazardou		sodium oxides					
	Decompo							
	Byproduc	sts:						
			Section 11. Toxicolo	gical Informa	ation			
11.1	Informati	on on	The toxicological effects of this product have not been thoroughly studied.					
	Toxicological Effects:		Sodium hydroxide - Toxicity Data: Intraperitoneal LD50 (mouse): 40 mg/kg; Oral LDLO (humar 1.57 mg/kg; Oral TDLO (rat): 44 mg/kg;					
	Chronic 1	oxicological	Sodium hydroxide - Investigated as an agricultural chemical, mutagen, and primary irritant.					
Effects:			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
			See actual entry in RTECS for con	-				
			Sodium hydroxide RTECS Numbe					
			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
		Sodium hydroxide)	n.a.	n.a.	n.a.	n.a.	
773	2-18-5	Water		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecolog	ical Informat	ion			
12.1 Toxicity:			Avoid release into the environmen	t.				
			Runoff from fire control or dilution	water may cause p	ollution.			
12.2	Persisten	ce and	No data available.					
	Degradat	oility:						
12.3	Bioaccun	nulative	No data available.					
	Potential	:						
12.4	Mobility in Soil:		No data available.					
12.5	Results of PBT and vPvE		3 No data available.					
	assessment:							
12.6	Other adv	verse effects:	No data available.					

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		Section 13. Dispos	al Considerat	tions		
13.1 Waste I	3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.					
	Section 14. Transport Information					
14.1 LAND	TRANSPORT (US DO	PT):				
-	er Shipping Name:	Sodium hydroxide solution				
DOT Haza UN/NA Nu		8 CORROSI\ UN1824	Packing Gro	ID:	Ш	
	inder.	011024		ub.		
		CORROSIVE 8				
	TRANSPORT (Europe	-				
	Shipping Name:	Sodium hydroxide solution				
UN Numbe Hazard Cla		1824 8 - CORROSIVE	Packing Gro	nb:	III	
	ASS: ANSPORT (ICAO/IAT					
	A Shipping Name:	Sodium hydroxide solution				
UN Numbe		1824	Packing Gro	up:	Ш	
Hazard Cla		8 - CORROSIVE	IATA Classification:		8	
Additional Tra	insport T	Fransport in accordance with local, state, and federal regulations.				
Information:	V	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of				
		E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.				
	Т	herefore packaging does not h	ave to be labeled as	Dangerous Goods	s/Excepted Quantity.	
		Section 15. Regul	atory Informa	tion		
EPA SARA (S	uperfund Amendmer	nts and Reauthorization Act o	of 1986) Lists			
CAS #	Hazardous Compo	nents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1310-73-2	Sodium hydroxide		No	Yes 1000 LB	No	
7732-18-5	Water		No	No	No	
CAS #	Hazardous Compo	nents (Chemical Name)	Other US EPA or	State Lists		
1310-73-2	Sodium hydroxide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7732-18-5	732-18-5 Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Inf	ormation T	his SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Re	gulation (EC)	
Statement:						

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Section 16. Other Information				
Revision Date:	06/10/2019			
Additional Information About	No data available.			
This Product:				
Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.			