

Multi-region format

Revision: 10/26/2018 Supersedes Revision: 10/20/2018

P	, , , , , , , , , , , , , , , , , , ,	Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830					
Ρ		ntification of the Substance/Mixture and of th					
Ρ	Product Code:		e company/ondertaking				
	Product Code: Product Name:	25699 LDAO					
Ŭ	Synonyms:	N,N-dimethyl-1-dodecanamine, N-oxide; Dimethyldodecylamine N-oxide; Lauramine Oxide					
	, ynonymo.	Lauryldimethylamine oxide; N-Lauryldimethyla	• •				
R	Relevant identified uses of th	e substance or mixture and uses advised aga					
	Relevant identified uses:	For research use only, not for human or vetering	ary use.				
D	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 (734)971-3335				
	Emergency telephone number		1 (200) 424 0200				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
С	Classification of the Substan	ce or Mixture:					
	Acute Toxicity: Oral, Categ	ory 4					
	Skin Corrosion/Irritation, C	ategory 2					
	Serious Eye Damage/Eye I	• ·					
	Aquatic Toxicity (Acute), C						
	Aquatic Toxicity (Chronic),						
Эл	abel Elements:						
2 L							
		SK					
•	 <th></th><th></th>						
	\vee \vee						
		$\mathbf{\vee}$					
	GHS Signal Word:	Danger					
	GHS Signal Word: GHS Hazard Phrases:	Danger					
	-	Danger					
	GHS Hazard Phrases:	Danger					
	GHS Hazard Phrases: H302: Harmful if swallowed.	-					
	GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation.	amage.					
	GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye d	amage. fe.					
	GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye d H400: Very toxic to aquatic li	amage. fe.					
	GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye d H400: Very toxic to aquatic lif H411: Toxic to aquatic life wi GHS Precaution Phrases:	amage. fe. th long lasting effects.					
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	GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye d H400: Very toxic to aquatic life H411: Toxic to aquatic life with GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P302+352: IF ON SKIN: Was P305+351+338: IF IN EYES	amage. fe. th long lasting effects. hly after handling. hvironment. es/protective clothing/eye protection/face protection : Call a POISON CENTER or doctor/physician if	you feel unwell.				
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	F 332Ŧ	313: If skin irritation	n occurs, get medical advice/at	tention.		
			aminated clothing and wash it b	pefore reuse.		
	P391:	Collect spillage.				
	GHS S	Storage and Dispo	sal Phrases:			
	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	on.	
2.3	Adverse	e Human Health	Causes serious eye irritation.			
	Effects	and Symptoms:	Causes skin irritation.			
			Harmful if swallowed			
			Material may be irritating to the	ne mucous membra	anes and upper res	spiratory tract.
			May be harmful by inhalation	or skin absorption.		
			May cause respiratory syster	n irritation.		
			Toxic to aquatic life with long	lasting effects.		
			Very toxic to aquatic life			
			To the best of our knowledge	, the toxicological p	properties have not	t been thoroughly investigated.
		Sect	ion 3. Composition	/Information	on Ingredie	nts
CAS #	<i>‡ </i>	Hazardous Comp	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification
RTEC	S #	REACH Registrat	tion No.		EC Index No.	
	-20-5	Dodecyldimethylami	ne oxide	100.0 %	216-700-6	Acute Tox.(O) 4: H302
JR665	0000	01-2120068065-58			NA	Skin Corr. 2: H315
						Eye Damage 1: H318
						Aquatic (A) 1: H400 Aquatic (C) 2: H411
						//qualle (0) 2.1111
			Section 4. Fi	rst Aid Meas	ures	
4.1	Descrip	tion of First Aid				
	Measur	es:				
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		al respiration or giv	ve oxygen by trained personnel.
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			5 minutes. Remove contaminated efore reuse.
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		water for at least 1	5 minutes. Have eyes examined
	In Case	of Ingestion:	Wash out mouth with water p	rovided person is c	onscious. Never gi	ive anything by mouth to an
		U		-	-	ng unless directed to do so by
			medical personnel.			
			Section 5. Fire	Fighting Me	asures	
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c			spray.
	Media:	5 5	Use water spray to cool fire-e		-	. <i>.</i>
		ıble Extinguishing	A solid water stream may be	-		
	Media:		,			
5.2		able Properties an	d No data available.			
	Hazards	-				
			No data available.			
	Flash P	+-	No data.			
				11 5 1 - N		
	-	ve Limits:	LEL: No data.	UEL: No d	ata.	
	-	nition Pt:	No data.			
5.3	Fire Fig	hting Instructions	:As in any fire, wear self-conta	ained breathing app	paratus pressure-d	emand (NIOSH approved or
						Multi-region forma



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Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 5.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling 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 information listed on the product insert. Section 8. Exposure Controls/Personal Protection 8.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor (Ventilation etc.): 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warran		MIMICAL	Supersedes Revision: 10/20)/2018
1.1 Protective Precautions, Avoid breathing vapors and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate Emergency Procedures: and appropriate personal protection (tubber boots, safety oggles, and heavy rubber gloves). 2.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 2.3 Methods and Material For Contain split and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: 2. Section 7. Handling and Storage 7.1 Precautions To Be Taken Keep container lightly closed. In Storing: Store in accordance with information listed on the product insert. 3. Section 8. Exposure Controls/Personal Protection 3.1 Exposure Controls: 3.2 Precautions To Be Taken Keep container lightly closed. In Storing: Store in accordance with information listed on the product insert. 3.2 Exposure Controls: 3.3 Exposure Controls: 3.4 Exposure Controls: 3.5 Protective Gloves: Compatible chemical-resistant gloves 3.5 Protective Gloves: Compatible chemical-resistant gloves 3.6 Other Protective Clebthing: Lab coat 3.7 Respiratory Equipment: 3.8 Exposure Controls: Safety glasses 3.9 Protective Gloves: Compatible chemical-resistant gloves 3.0 Other Protective Clebthing: Lab coat 3.1 Respiratory Equipment NIOSH approved respirator, as conditions warrant. 3.2 (Specify Type): 3.3 Void data available. 3.4 Information on Basic Physical and Chemical Properties 3.5 Protectives: Compatible chemical-resistant gloves 3.6 Information on Basic Physical and Chemical Properties 3.7 Physical States: []Gas []Liquid [X]Solid 3.7 Appearance and Odor: A crystalline solid 3.6 Protective Clebthing: Lab coat 3.7 Precise Links: LEI: No data. 3.7 Physical States: No data. 3.7 Paporation Rate: No data. 3.7 Protective (vs. Air			equivalent), and full protective gear to prevent contact with skin and eyes.	
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirato Emergency Proceedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: A Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Section 7. Handling 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. Avoid breathing dust/fume/gas/mist/vapours/spray. in Storing: Store in accordance with information listed on the product insart. Section 8. Exposure Controls/Personal Protection 8.1 Exposure Parameters: 8.2 Exposure Controls: 8.2.1 Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor (Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment: Eye Protection: Safety glassas Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties Physical States: [] Osa [] Liquid [X] Solid Appearance and Odor: A crystalline solid pit: No data. Boiling Point: No data. Flammability (solid, gas): No data. Flammability (solid, gas): No data. Flammability (solid, gas): No data. Flammability (solid, gas): No data. Harmability (solid, gas): No data. Harmability (solid, gas): No data. Harmability (solid, gas): No data. Harmabi			Section 6. Accidental Release Measures	
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Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash toroughly after handling. No data available. Section 9. Physical and Chemical Properties 9.1 Information on Basic Physical and Chemical Properties Physical States: []Gas []Liquid [X] Solid Appearance and Odor: A crystalline solid Acrystalline solid pH: No data. No data. Boiling Point: No data. Sol data. Flash Pt: No data. Flash Pt: No data. Flash Pt: No data available. Explosive Limits: LEL: No data. Vapor Pressure (vs. Air or mm) No data. UEL: No data. Hg): Vapor Density (vs. Air = 1): No data.			NIOSH approved respirator, as conditions warrant.	
ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties 9.1 Information on Basic Physical and Chemical Properties Physical States: []Gas []Liquid [X]Solid Appearance and Odor: A crystalline solid pH: No data. Melting Point: No data. Boiling Point: No data. Flash Pt: No data. Evaporation Rate: No data. Flash Pt: No data. Explosive Limits: LEL: No data. Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1):		(Specify Type):		
Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties 9.1 Information on Basic Physical and Chemical Properties Physical States: []Gas []Gas []Liquid [X]Solid Appearance and Odor: A crystalline solid pH: No data. Melting Point: No data. Boiling Point: No data. Flash Pt: No data. Flamability (solid, gas): No data available. Explosive Limits: LEL: No data. Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1):		Work/Hygienic/Maintenan	-	
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9.1 Information on Basic Physical and Chemical Properties Physical States: []Gas []Liquid [X]Solid Appearance and Odor: A crystalline solid pH: No data. Melting Point: No data. Boiling Point: No data. Flash Pt: No data. Evaporation Rate: No data. Flammability (solid, gas): No data. Explosive Limits: LEL: No data. Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1):		Se	ection 9. Physical and Chemical Properties	
Appearance and Odor:A crystalline solidpH:No data.Melting Point:No data.Boiling Point:No data.Flash Pt:No data.Kvaporation Rate:No data.Flammability (solid, gas):No data available.Explosive Limits:LEL: No data.Vapor Pressure (vs. Air or mmNo data.Hg):No data.Vapor Density (vs. Air = 1):No data.	9.1			
pH:No data.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 Hg):No data.Vapor Density (vs. Air = 1):No data.		Physical States:	[]Gas []Liquid [X]Solid	
Melting Point:No data.Boiling 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.Vapor Pressure (vs. Air or mm Hg):No data.Vapor Density (vs. Air = 1):No data.		Appearance and Odor:	A crystalline solid	
Boiling 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 Hg):No data.Vapor Density (vs. Air = 1):No data.		pH:	No data.	
Flash Pt:No data.Evaporation Rate: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 Hg):No data.Vapor Density (vs. Air = 1):No data.		Melting Point:	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 Hg):No data.Vapor Density (vs. Air = 1):No data.		Boiling Point:	No data.	
Flammability (solid, gas):No data available.Explosive Limits:LEL: No data.UEL: No data.Vapor Pressure (vs. Air or mm Hg):No data.Vapor Density (vs. Air = 1):No data.		Flash Pt:	No data.	
Explosive Limits:LEL: No data.UEL: No data.Vapor Pressure (vs. Air or mm Hg):No data.Vapor Density (vs. Air = 1):No data.		Evaporation Rate:	No data.	
Vapor Pressure (vs. Air or mmNo data.Hg):No data.Vapor Density (vs. Air = 1):No data.		Flammability (solid, gas):	No data available.	
Hg): Vapor Density (vs. Air = 1): No data.		Explosive Limits:	LEL: No data. UEL: No data.	
Vapor Density (vs. Air = 1): No data.		Vapor Pressure (vs. Air or	r mm No data.	
		Hg):		
Multi-region for		Vapor Density (vs. Air = 1)): No data.	
•			Multi-regio	n forma

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	Specific	Gravity (Water =	1): No d	ata.				
	Solubility	y in Water:	No d	ata.				
	Solubility	y Notes:	~0.1	mg/ml in PBS (pH 7.2); ~15 i	mg/ml in EtO	0H; ~0.1 mg/m	l in DMSO; ~0	.3 mg/ml in DMF;
	Octanol/	Water Partition	No d	ata.				
	Coefficie	nt:						
	Autoigni	tion Pt:	No d	ata.				
	-	osition Temperat						
	Viscosity	-	No d					
9.2	Other Info							
5.2	Percent V		No d	ata				
		r Formula & Wei		431NO 229.4				
	WOIecula		giit. 0141	131110 229.4				
			Secti	on 10. Stability and	Reactiv	vity		
10.1	Reactivit	у:	No data ava	ilable.				
10.2	Stability:		Unstable [] Stable [X]				
10.3	Stability	Note(s):	Stable if stor	red in accordance with inform	ation listed o	on the product	insert.	
	Polymeri	zation:	Will occur [] Will not occur [X]				
10.4	Conditio	ns To Avoid:	No data ava	ilable.				
10.5	Incompa	tibility - Materials	s strong oxidiz	zing agents				
	To Avoid	-	J	0.00				
10.6	Hazardo		carbon dioxi	de				
		osition or	carbon mon					
	Byprodu		nitrogen oxid					
	Вургоци	ci3.	-					
				n 11. Toxicological				
11.1	Informati	ion on		gical effects of this product ha		• •		
	Toxicolo	gical Effects:		icity Data: Intraperitoneal LD5		mg/kg; Oral L[050 (mouse): 2	2700 mg/kg;
				eal LD50 (mouse): 375 mg/kg				
	Chronic	Toxicological		stigated as an agricultural ch	•	•		
	Effects:		-	Registry of Toxic Effects of C		stances (RTE	CS) data is pre	sented here.
				entry in RTECS for complete i	nformation.			
			LDAO RTEO	CS Number: JR6650000				
Carcir	nogenicity	:	NTP? No	IARC Monographs? No	OSHA Re	gulated? No		
CAS #	¥	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA
164	3-20-5	Dodecyldimethyla	amine oxide		n.a.	n.a.	n.a.	n.a.
			Secti	on 12. Ecological I	nformati	ion		
12.1	Toxicity:		Avoid releas	e into the environment.				
			Runoff from	fire control or dilution water n	nay cause po	ollution.		
12.2	Persister	ice and	No data ava		, ,			
	Degradal							
12.3	Bioaccur	-	No data ava	ilabla				
12.3	Potential		NU UALA AVA	11au15.				
10.6			Na dete	lahla				
12.4	Mobility		No data ava					
12.5		of PBT and vPvB	No data ava	ilable.				
	assessm	ent:						
12.6	Other ad	verse effects:	No data ava	ilable.				
							Ν	Iulti-region format



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		_		iona	
		Section 13. Dispos	sal Considerat	IONS	
13.1 Waste D	Disposal Method:	Dispose in accordance with loc	al, state, and federal r	egulations.	
		Section 14. Tran	sport Informat	ion	
14.1 LAND T	RANSPORT (US	DOT):			
DOT Prope	er Shipping Name	: Not dangerous goods.			
DOT Hazar	d Class:				
UN/NA Nur	nber:				
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):			
	hipping Name:	Environmentally hazardous			
UN Numbe		3077	Packing Grou	ıp:	III
Hazard Cla		9 - CLASS 9			
	ANSPORT (ICAO/	-			
	Shipping Name:	Environmentally hazardous			
UN Numbe		3077	Packing Grou	-	
Hazard Cla		9 - CLASS 9	IATA Classifie		9
Additional Tra	nsport	Transport in accordance with lo		0	
Information:		When sold in quantities of less	-	-	
				iontition avamption r	
				antities exemption, p	
		Therefore packaging does not	have to be labeled as	Dangerous Goods/E	
			have to be labeled as	Dangerous Goods/E	
EPA SARA (Sı	uperfund Amendn	Therefore packaging does not	have to be labeled as latory Informat	Dangerous Goods/E	
-	Hazardous Com	Therefore packaging does not Section 15. Regu nents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Informat	Dangerous Goods/E	
-	1	Therefore packaging does not Section 15. Regu nents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Informat of 1986) Lists	Dangerous Goods/E	xcepted Quantity.
CAS # 1643-20-5	Hazardous Com Dodecyldimethyla	Therefore packaging does not Section 15. Regu nents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Informat of 1986) Lists S. 302 (EHS)	Dangerous Goods/E tion S. 304 RQ No	xcepted Quantity. S. 313 (TRI)
CAS # 1643-20-5	Hazardous Com Dodecyldimethyla	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No	xcepted Quantity. S. 313 (TRI) No
CAS # 1643-20-5 CAS #	Hazardous Com Dodecyldimethyl: Hazardous Com	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide	have to be labeled as latory Informat of 1986) Lists S. 302 (EHS) No Other US EPA or S	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No	xcepted Quantity. S. 313 (TRI) No
CAS # 1643-20-5 CAS # 1643-20-5	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl	Therefore packaging does not Section 15. Regu ments and Reauthorization Act aponents (Chemical Name) amine oxide amine oxide This SDS was prepared in acco	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRO	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide ponents (Chemical Name) amine oxide	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRO	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl	Therefore packaging does not Section 15. Regu ments and Reauthorization Act aponents (Chemical Name) amine oxide amine oxide This SDS was prepared in acco	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRC ordance with 29 CFR 1	Dangerous Goods/E tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS #	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008.	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRC ordance with 29 CFR 1	Dangerous Goods/E tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date:	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl ormation	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ot 10/26/2018	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRC ordance with 29 CFR 1	Dangerous Goods/E tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date: Additional Info	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ot	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRC ordance with 29 CFR 1	Dangerous Goods/E tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes -
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date: Additional Info This Product:	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl ormation	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ot 10/26/2018	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRO ordance with 29 CFR 1 her Information	Dangerous Goods/E tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes - lation (EC)
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date: Additional Info This Product:	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl ormation	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ot 10/26/2018 No data available.	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRC ordance with 29 CFR 1 ner Information	Dangerous Goods/E: tiON S. 304 RQ No State Lists D; CWA NPDES: No DP.65: No 1910.1200 and Regul	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes - lation (EC) the best information
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date: Additional Info This Product:	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl ormation	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ott 10/26/2018 No data available. DISCLAIMER: This information	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRO ordance with 29 CFR 1 ner Information is believed to be accu- ver, we make no warra	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul N	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes - lation (EC) the best information y or any other warrant
CAS # 1643-20-5 CAS # 1643-20-5 Regulatory Info Statement: Revision Date: Additional Info This Product:	Hazardous Com Dodecyldimethyl Hazardous Com Dodecyldimethyl ormation	Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) amine oxide This SDS was prepared in acco No.1272/2008. Section 16. Ot 10/26/2018 No data available. DISCLAIMER: This information currently available to us. Howe	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No Inventory; CA PRO ordance with 29 CFR 1 ner Information is believed to be accu- ver, we make no warration, a	Dangerous Goods/E: tiON S. 304 RQ No State Lists b; CWA NPDES: No DP.65: No 1910.1200 and Regul N n	xcepted Quantity. S. 313 (TRI) No ; TSCA: Yes - lation (EC) the best information y or any other warrant ability resulting from its

Multi-region format