



Version	Revision Date:	SDS Number:	Date of last issue: 08-12-2020
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BLUE CUBE OPERATIONS LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

### **SECTION 1. IDENTIFICATION**

Product name	:	D.E.H.™ 630 Epoxy Hardener
Product code	:	0000000100000356
Manufacturer or supplier's	deta	ails
Company name of supplier	:	BLUE CUBE OPERATIONS LLC
Address	:	190 CARONDELET PLAZA, SUITE 1530 CLAYTON MO 63105-3467
Telephone	:	(844) 238-3445
E-mail address	:	INFO@OLIN.COM
Emergency telephone	:	+1 800 424 9300
Local Emergency Contact	:	1-800-424-9300
Identified uses	:	Curing agent.

## **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral)	:	Category 4
Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
GHS label elements Hazard pictograms	:	

## SAFETY DATA SHEET



## D.E.H.<sup>™</sup> 630 Epoxy Hardener

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Hazar	d Statements	Causes severe May cause an	<ul> <li>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of damaging fertility or the unborn child.</li> </ul>					
Precautionary Statements		P202 Do not h and understoor P261 Avoid br P264 Wash sk P270 Do not e P272 Contamin the workplace.	eathing dust/ fume/ gas/ mist/ vapors/ spray. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing must not be allowed out of otective gloves/ protective clothing/ eye protection					
		CENTER/ doct P301 + P330 + induce vomitin P303 + P361 + all contaminate P304 + P340 + and keep comf CENTER/ doct P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 II attention. P333 + P313 II attention.	<ul> <li>P353 IF ON SKIN (or hair): Take off immediateled clothing. Rinse skin with water/ shower.</li> <li>P310 IF INHALED: Remove person to fresh air fortable for breathing. Immediately call a POISON or.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present</li> <li>Continue rinsing. Immediately call a POISON</li> </ul>					
		<b>Storage:</b> P405 Store loc <b>Disposal:</b> P501 Dispose	ked up. of contents/ container to an approved waste dis-					
	<b>hazards</b> known.	posal plant.						
ECTION	3. COMPOSITION/IN	FORMATION ON ING	REDIENTS					
Subst	ance / Mixture	: Mixture						
Comr	oonents							
Comp	Jonenia							



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1,3-C	Cyclohexanebis(methyla	amine)	2579-20-6	> 20 - <= 30
Styre	enated phenol		61788-44-1	> 15 - <= 25
Trime	ethyl-1,6-hexanediamir	ne	25620-58-0	> 10 - <= 20
with 2	1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bis[oxirane]			> 5 - <= 15
Salic	ylic acid		69-72-7	> 5 - <= 15
Dode	Dodecanol			> 5 - <= 10
1,3-E	1,3-Benzenedimethanamine			> 1 - <= 5
Tetra	Tetradecanol			<= 5
Cety	l alcohol		36653-82-4	<= 1

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	Move person to fresh air; if effects occur, consult a physician.
In case of skin contact	:	Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contami- nated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immedia- tely available.
In case of eye contact	:	Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 mi- nutes and continue washing. Obtain prompt medical consulta- tion, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.
If swallowed	:	Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.
Most important symptoms and effects, both acute and delayed	:	Aside from the information found under Description of first aid measures(above)any additional important symptoms and effects are described in Section 11: Toxicology Information.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontami- nation. Exposure to amine vapors may cause minor transient edema of the corneal epithelium (glaucopsia) with blurred vision, blue



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			few hours and ten Due to irritant pro burns/ulceration of tract with subseque cause lung injury. lavage is done. No specific antido Treatment of expo	round bright objects. Effects disappear in a nporarily reduce ability to drive vehicles. perties, swallowing may result in of mouth, stomach and lower gastrointestinal uent stricture. Aspiration of vomitus may Suggest endotracheal/esophageal control if ote. osure should be directed at the control of e clinical condition of the patient.
SECTION	5. FIRE-FIGHTING ME	ASL	JRES	
Suita	ble extinguishing media	:	purpose synthetic	extinguishers.
Unsu media	itable extinguishing a	:	Do not use direct May spread fire.	water stream.
Spec fightir	ific hazards during fire ng	:	tion of direct wate	neration or eruption may occur upon applica- r stream to hot liquids. produced when product burns.
Haza ucts	rdous combustion prod-	:	tion to combustion be toxic and/or irr	ucts may include and are not limited to:
Furth	er information	:	Burning liquids m Do not use direct Burning liquids m tect personnel an Contain fire water contained, may ca Review the 'Accid	y. Isolate fire and deny unnecessary entry. ay be extinguished by dilution with water. water stream. May spread fire. ay be moved by flushing with water to pro- d minimize property damage. run-off if possible. Fire water run-off, if not ause environmental damage. lental Release Measures' and the 'Ecological ons of this (M)SDS.
	ial protective equipment e-fighters	:	(SCBA) and prote ting helmet, coat, Avoid contact with If contact is likely, clothing with self- available, wear fu	ssure self-contained breathing apparatus ective fire fighting clothing (includes fire figh- trousers, boots, and gloves). In this material during fire fighting operations. change to full chemical resistant fire fighting contained breathing apparatus. If this is not Il chemical resistant clothing with self- ng apparatus and fight fire from a remote



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				uipment in post-fire or non-fire clean-up si- he relevant sections.
SECTIO	N 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:	ved in clean-up o Keep upwind of s Ventilate area of Use appropriate s refer to Section 8 Keep unnecessar the area.	pill.
Env	ironmental precautions	:		ering into soil, ditches, sewers, waterways er. See Section 12, Ecological Information.
	hods and materials for tainment and cleaning up	:	Absorb with mate Sand.	and properly labeled containers.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated contact with skin. Do not swallow. Avoid breathing vapor. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly re- sulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.
Conditions for safe storage	:	Store in a cool, dry place. Avoid contact with: Brass. Bronze. Copper. Copper alloys.
Recommended storage tem- perature	:	41 - 122 °F / 5 - 50 °C
Storage period	:	24 Months



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
1,3- Cyclohexanebis(methylamine)	2579-20-6		0.1 ppm 0.8 mg/m3	OLIN OEL
1,3-Benzenedimethanamine	1477-55-0	С	0.1 mg/m3	ACGIH
		С	0.1 mg/m3	OSHA P0
Engineering measures :	exposure lim If there are n guidelines, u	it requirements c to applicable exp se only with ade	osure limit requiremen	nts or
Personal protective equipmer	nt			
Respiratory protection :	Respiratory   tial to exceed If there are n guidelines, w such as resp enced, or wh In misty atmo For emerger pressure self	d the exposure lin to applicable exponent year respiratory p iratory irritation of here indicated by ospheres, use an acy conditions, us f-contained breat		uidelines. nts or se effects, en experi- process. respirator. /e-
Filter type :			tive types of air-purify e with a particulate pr	
Hand protection				
Remarks :	preferred glo ethylene. Po Styrene/buta barrier mater tex'). Neopre Polyvinyl chl of: Polyvinyl specific glov in a workplace fa which may b protection, d tions to glove	ve barrier materi lyethylene. Ethyl idiene rubber. Ex rials include: Buty ene. Nitrile/butadi oride ('PVC' or 'v alcohol ('PVA'). N e for a particular ce should also tal ctors such as, bu e handled, physic exterity, thermal e materials, as we	ant to this material. Ex als include: Chlorinate amples of acceptable amples of acceptable amples. Natural rubb ene rubber ('nitrile' or inyl'). Viton. Avoid glo NOTICE: The selectio application and durati ke into account all relevant the limited to: Other cal requirements (cut/ protection), potential fe ell as the instructi- y the glove supplier.	ed poly- e ('EVAL'). e glove ber ('la- 'NBR'). ives made n of a ion of use evant chemicals /puncture
Eye protection :	Use chemica If exposure c		mfort, use a full-face i	respirator.

## SAFETY DATA SHEET



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Skin a	Skin and body protection		: Use protective clothing chemically resistant to this mater Selection of specific items such as face shield, boots, ap or full body suit will depend on the task.					
SECTION	9. PHYSICAL AND CHI	EMI	CAL PROPERT	IES				
Appea	arance	:	liquid					
Color		:	orange, browr	1				
Odor		:	amine-like					
Odor <sup>-</sup>	Threshold	:	Not applicable	9				
рН		:	11 Concentration Method: Litera					
Meltin	g point/range	:	Not applicable	)				
Freezi	ing point		No test data a	vailable				
Boiling	g point/boiling range	:	> 482 °F / > 2 (760 mmHg) Method: Litera					
Flash	point	:	> 201 °F / 94 '	°C				
			Method: Estim	nated., closed cup				
Evapc	pration rate	:	No test data a	vailable				
Flamn	nability (solid, gas)	:	Not applicable	e to liquids				
	r explosion limit / Upper ability limit	:	No test data a	vailable				
	r explosion limit / Lower ability limit	:	No test data a	vailable				
Vapor	pressure	:	Negligible					
Relativ	ve vapor density	:	No test data a	vailable				
Relativ	ve density	:	1.024 (77 °F / Method: Pykn	25 °C, 760 mmHg) ometer				
	ility(ies) ater solubility	:	Partially solub	le				



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	Partition octanol	n coefficient: n- /water	:	No data available	Э.			
	Autoign	nition temperature	:	No test data ava	ilable			
	Decomposition temperature		:	: No test data available				
	Viscosi Visc	ty cosity, dynamic	:	700 - 900 mPa,s Method: ISO 321				
	Visc	cosity, kinematic	:	1000 mm2/s Method: ISO 321	9			
	Explosi	ve properties	:	No				
	Oxidizir	ng properties	:	No				
	Molecu	lar weight	:	No test data ava	ilable			

Note: These are the Reference Points for these Physical Properties listed above, unless otherwise noted in their respective Physical Property value information: Boiling Point at 760 mmHg; Evaporation Rate Butyl Acetate = 1; Relative Vapor Density Air = 1; and Relative Density Water = 1. NOTE: The physical data presented above are typical values and should not be construed as a specification.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under recommended storage conditions. See Storage, Section 7.
Possibility of hazardous reac- tions	:	Polymerization will not occur.
Conditions to avoid	:	Exposure to elevated temperatures can cause product to de- compose.
Incompatible materials	:	Avoid contact with: Acids. Halogenated hydrocarbons. Oxidizers. Avoid contact with metals such as: Brass. Bronze. Copper. Copper alloys.
Hazardous decomposition products	:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aromatic compounds. Amines.



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		Hydrocarbon Phenolics.	S.
ECTION	11. TOXICOLOGICA	L INFORMATION	
Acute	toxicity		
Produ	ıct:		
	oral toxicity	Swallowing m tion. Swallowing m	v toxicity if swallowed. ay result in gastrointestinal irritation or ulcera- ay result in burns of the mouth and throat. Jusea and vomiting.
			nated.
Acute	inhalation toxicity	piratory tract (	por may cause severe irritation of the upper res mose and throat). se irritation of upper respiratory tract (nose and
		Remarks: As The LC50 has	product: s not been determined.
Acute	dermal toxicity		longed skin contact is unlikely to result in ab- rmful amounts.
		Method: Estin Remarks: As The dermal LI	
Comp	oonents:		
1,3-C	yclohexanebis(meth	ylamine):	
Acute	oral toxicity	: LD50 (Rat, fe	male): > 300 - 2,000 mg/kg
Acute	inhalation toxicity	: Remarks: As The LC50 has	product: s not been determined.
			por may cause severe irritation of the upper res mose and throat).
Acute	dermal toxicity	: LD50 (Rabbit)	: 1,700 mg/kg
Styre	nated phenol:		
-	oral toxicity	: LD50 (Rat): >	2,000 mg/kg



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				o deaths occurred at this concentration. The substance or mixture has no acute oral tox
Acute	inhalation toxicity	:	Remarks: Mist (nose and thro	may cause irritation of upper respiratory tract at).
Acute	dermal toxicity	:	LD50 (Rabbit)	: > 7,000 mg/kg
Trime	ethyl-1,6-hexanedian	nine:		
Acute	oral toxicity	:	LD50 (Rat): 97	0 mg/kg
Acute	inhalation toxicity	:	Remarks: The	LC50 has not been determined.
Acute	e dermal toxicity	:	Remarks: The	dermal LD50 has not been determined.
1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bis[oxirane]:				
	oral toxicity	:	-	le dose oral LD50 has not been determined.
Acute	inhalation toxicity	:	Remarks: The	LC50 has not been determined.
Acute	e dermal toxicity	:	Remarks: The	dermal LD50 has not been determined.
	ylic acid:			
Acute	oral toxicity	:	LD50 (Rat, ma	ıle): 891 mg/kg
Acute	inhalation toxicity	:	Remarks: The	LC50 has not been determined.
Acute	dermal toxicity	:	LD50 (Rat): > Method: Estim Assessment: T toxicity	• •
Dode	canol:			
Acute	oral toxicity	:	Small amounts handling opera	toxicity if swallowed. s swallowed incidentally as a result of normal ations are not likely to cause injury; however, ger amounts may cause injury.
			Symptoms: No	ale and female): > 2,000 mg/kg b deaths occurred at this concentration. The substance or mixture has no acute oral to
Acute	inhalation toxicity	:	posure to mist Excessive exp	adverse effects are anticipated from single ex- osure may cause severe irritation to the upper ct (nose and throat).
			LC50 (Rat, ma Exposure time	le and female): > 71 mg/l : 1 h



ersion D	Revision Date: 04-08-2021	SDS Number: 101269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
			here: dust/mist ised on information for a similar material:
Acute	dermal toxicity	: LD50 (Rabbi	t, male and female): > 8,000 mg/kg
1,3-B	enzenedimethanami	ne:	
Acute	oral toxicity	: LD50 (Rat): 9	980 mg/kg
Acute	inhalation toxicity	adverse effe Excessive ex	olonged excessive exposure may cause serious cts, even death. cposure may cause severe irritation to upper res (nose and throat) and lungs.
		LC50 (Rat): Exposure tim Test atmosp	
Acute	dermal toxicity		> 3,100 mg/kg No deaths occurred at this concentration. The substance or mixture has no acute dermal
Tetra	decanol:		
Acute	oral toxicity	Symptoms: N	hale and female): > 2,000 mg/kg No deaths occurred at this concentration. The substance or mixture has no acute oral to:
Acute	inhalation toxicity	: Remarks: No posure to va	adverse effects are anticipated from single ex- por.
		Exposure tim Test atmosp Symptoms: N	
Acute	dermal toxicity	: LD50 (Rabbi	t, male and female): > 8,000 mg/kg
Cetyl	alcohol:		
-	oral toxicity	: Remarks: Si	ngle dose oral LD50 has not been determined.
Acute	inhalation toxicity	: Remarks: Th	e LC50 has not been determined.
Acute	dermal toxicity	: Remarks: Th	e dermal LD50 has not been determined.
Skin o	corrosion/irritation		
<u>Produ</u>	<u>ict:</u>		
Rema		: Brief contact	may cause severe skin burns. Symptoms may



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		include pain, s	evere local redness and tissue damage.
<u>Com</u>	oonents:		
1.3-C	yclohexanebis(metl	hvlamine):	
Resul		: Causes severe	e burns
Rema		: Brief contact m	hay cause severe skin burns. Symptoms may evere local redness and tissue damage.
Styre	nated phenol:		
Resul	-	: Skin irritation	
Rema	-	: Brief contact m Prolonged con	nay cause skin irritation with local redness. tact may cause skin burns. Symptoms may evere local redness, swelling, and tissue dan
Trime	ethyl-1,6-hexanedia	mine:	
Resul	- ·		r 3 minutes or less of exposure
Rema	arks	: Brief contact m	hay cause severe skin burns. Symptoms may evere local redness and tissue damage.
			'-[(1-methylethylidene)bis(4,1-
phen	yleneoxymethylene	)]bis[oxirane]:	
Resul	-	: Causes burns.	
Rema	arks		nay cause skin burns. Symptoms may include ocal redness and tissue damage.
Salic	ylic acid:		
<b>Salic</b> Rema		: Brief contact is	s essentially nonirritating to skin.
Rema		: Brief contact is	s essentially nonirritating to skin.
Rema	arks canol:		s essentially nonirritating to skin. s essentially nonirritating to skin.
Rema Dode Rema	arks canol: arks	: Brief contact is	
Rema Dode Rema 1,3-B	arks canol: arks enzenedimethanam	: Brief contact is	s essentially nonirritating to skin.
Rema Dode Rema	arks canol: arks enzenedimethanam It	: Brief contact is ine: : Causes burns. : Brief contact n	s essentially nonirritating to skin.
Rema Dode Rema 1,3-B Resul Rema	arks canol: arks enzenedimethanam It	: Brief contact is ine: : Causes burns. : Brief contact n	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may
Rema Dode Rema 1,3-B Resul Rema	arks canol: arks enzenedimethanam It arks decanol:	: Brief contact is ine: : Causes burns. : Brief contact n include pain, s	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may
Rema Dode Rema 1,3-B Resul Rema Tetra Rema	arks canol: arks enzenedimethanam It arks decanol:	<ul> <li>Brief contact is</li> <li>ine: <ul> <li>Causes burns.</li> <li>Brief contact n include pain, s</li> </ul> </li> <li>Brief contact is</li> </ul>	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may evere local redness and tissue damage.
Rema Dode Rema 1,3-B Resul Rema Tetra Rema	arks canol: arks enzenedimethanam It arks decanol: arks us eye damage/eye	<ul> <li>Brief contact is</li> <li>ine: <ul> <li>Causes burns.</li> <li>Brief contact n include pain, s</li> </ul> </li> <li>Brief contact is</li> </ul>	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may evere local redness and tissue damage.
Rema Dode Rema 1,3-B Resul Rema Tetra Rema Serio	arks canol: arks enzenedimethanam It arks decanol: arks us eye damage/eye uct:	<ul> <li>: Brief contact is</li> <li>ine: <ul> <li>: Causes burns.</li> <li>: Brief contact n include pain, s</li> <li>: Brief contact is</li> </ul> </li> <li>irritation</li> </ul>	a essentially nonirritating to skin. Thay cause severe skin burns. Symptoms may evere local redness and tissue damage.
Rema Dode Rema 1,3-B Resul Rema Tetra Rema Serio <u>Produ</u>	arks canol: arks enzenedimethanam It arks decanol: arks us eye damage/eye uct:	<ul> <li>Brief contact is</li> <li>ine:         <ul> <li>Causes burns.</li> <li>Brief contact n include pain, s</li> <li>Brief contact is</li> <li>irritation</li> <li>May cause sev sult in perman</li> </ul> </li> </ul>	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may evere local redness and tissue damage. s essentially nonirritating to skin. vere irritation with corneal injury which may re ent impairment of vision, even blindness. Che
Rema Dode Rema 1,3-B Resul Rema Tetra Rema Serio <u>Produ</u>	arks canol: arks enzenedimethanam It arks decanol: arks us eye damage/eye uct:	<ul> <li>Brief contact is</li> <li>ine:         <ul> <li>Causes burns.</li> <li>Brief contact n include pain, s</li> <li>Brief contact is</li> <li>irritation</li> <li>May cause sev sult in perman ical burns may</li> </ul> </li> </ul>	s essentially nonirritating to skin. hay cause severe skin burns. Symptoms may evere local redness and tissue damage. s essentially nonirritating to skin. vere irritation with corneal injury which may re ent impairment of vision, even blindness. Che occur.
Rema Dode Rema 1,3-B Resul Rema Tetra Rema Serio <u>Produ</u>	arks canol: arks enzenedimethanam It arks decanol: arks us eye damage/eye uct:	<ul> <li>Brief contact is</li> <li>ine:         <ul> <li>Causes burns.</li> <li>Brief contact n include pain, s</li> <li>Brief contact is</li> <li>irritation</li> <li>May cause sev sult in perman ical burns may Vapor may cause</li> </ul> </li> </ul>	e essentially nonirritating to skin. hay cause severe skin burns. Symptoms may evere local redness and tissue damage. s essentially nonirritating to skin. vere irritation with corneal injury which may re ent impairment of vision, even blindness. Che



rsion )	Revision Date: 04-08-2021	SDS Number: 101269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
		lights may app	nces such as blurred or hazy vision. Bright ear to be surrounded by halos. Effects may be pically disappear spontaneously.
Com	ponents:		
1,3-C	yclohexanebis(meth	ylamine):	
Resu	lt	: Corrosive	
Rema	arks	sult in permane ical burns may Vapor may cau Vapor of amine visual disturba lights may app	vere irritation with corneal injury which may re- ent impairment of vision, even blindness. Che occur. use severe eye irritation. es may cause swelling of the cornea resulting nces such as blurred or hazy vision. Bright ear to be surrounded by halos. Effects may be pically disappear spontaneously.
Styre	nated phenol:		
Resu	lt	: Eye irritation	
Rema	arks	: May cause eye	irritation.
Trime	ethyl-1,6-hexanediam	ine:	
Resu	lt	: Corrosive	
Rema	arks		vere irritation with corneal injury which may re- ent impairment of vision, even blindness. Che occur.
	enzenedimethanamiı yleneoxymethylene)]		-[(1-methylethylidene)bis(4,1-
Resu	lt	: Corrosive	
Rema	arks	that exposure	ects of the material on the skin, it is assumed may cause severe irritation with corneal injury ult in permanent impairment of vision, even
Salic	ylic acid:		
Resu Rema		sult in permane	vere irritation with corneal injury which may re- ent impairment of vision, even blindness. Che occur.
		ical burns may	
Dode	canol:	icai burns may	
<b>Dode</b> Resu		: Eye irritation	
	lt	: Eye irritation : May cause mo	derate eye irritation. derate corneal injury.
Resu Rema	lt arks	: Eye irritation : May cause mo May cause mo	
Resu Rema	lt arks <b>enzenedimethanami</b> i	: Eye irritation : May cause mo May cause mo	



sion	Revision Date: 04-08-2021	SDS Number: 101269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
		ical burns ma	ay occur.
Tetra	decanol:		
Resul	lt	: Eye irritation	
Rema	arks		oderate eye irritation. ight corneal injury.
Resp	iratory or skin sens	sitization	
<u>Produ</u>	uct:		
Rema	arks	sitization in g Contains con al for contact Individuals ha have an aller The similar m Triethylenete	nponent(s) which have caused allergic skin se uinea pigs. nponent(s) which have demonstrated the pote allergy in mice. aving an allergic skin reaction to this product n gic skin reaction to similar material(s). naterial(s) is/are: tramine (TETA). hanolamine (AEEA).
Rema	arks	: For respirato No relevant c	ry sensitization: lata found.
<u>Com</u>	oonents:		
1,3-C	yclohexanebis(met	hylamine):	
Asses Rema	ssment arks		se skin sensitization. e allergic skin reactions when tested in guinea
Rema	arks	: For respirato No relevant c	ry sensitization: lata found.
Styre	nated phenol:		
Asses Rema	ssment arks		s a skin sensitizer, sub-category 1A. trated the potential for contact allergy in mice.
Rema	arks	: For respirato No relevant c	ry sensitization: lata found.
Trime	ethyl-1,6-hexanedia	mine:	
	ssment		s a skin sensitizer, sub-category 1A.
Rema	arks	: Has caused a	allergic skin reactions when tested in guinea p
Rema	arks	: For respirato No relevant c	ry sensitization: lata found.
	enzenedimethanan yleneoxymethylene		2'-[(1-methylethylidene)bis(4,1-
	ssment		ensitization by skin contact.



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Remar	ks	: Has caused	l allergic skin reactions when tested in guinea p				
Remarks			: For respiratory sensitization: No relevant data found.				
Salicy	lic acid:						
Remar	ks	: Did not dem	nonstrate the potential for contact allergy in mic				
Remar	ks		ory sensitization: data found.				
Dodeo	anol:						
Remar	ks	: Did not cau pigs.	se allergic skin reactions when tested in guinea				
Remar	ks		ory sensitization: data found.				
1,3-Be	nzenedimethanam	ine:					
Assess Remar		: Has caused	t is a skin sensitizer, sub-category 1B. I allergic skin reactions when tested in guinea p strated the potential for contact allergy in mice.				
Remar	ks		ory sensitization: data found.				
Tetrad	lecanol:						
Remar	ks	pigs. For respirat	se allergic skin reactions when tested in guinea ory sensitization: information found.				
Germ	cell mutagenicity						
<u>Produ</u>	<u>ct:</u>						
Genote	oxicity in vitro	component	icity studies in animals were negative for comp				
Comp	onents:						
1,3-Cy	clohexanebis(meth	ylamine):					
Genote	oxicity in vitro		n vitro genetic toxicity studies were negative. etic toxicity studies were negative.				
Styron	ated phenol:						
Styrei							



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Genot	Genotoxicity in vitro			tro genetic toxicity studies were negative toxicity studies were negative.			
	enzenedimethanami /leneoxymethylene)	nine, polymer with 2,2'-[(1-methylethylidene)bis(4,1- e)]bis[oxirane]:					
Genot	oxicity in vitro	:	Remarks: In vit	ro genetic toxicity studies were negative			
Salicy	/lic acid:						
Genot	oxicity in vitro			tro genetic toxicity studies were negative toxicity studies were negative.			
Dode	canol:						
Genot	oxicity in vitro	:		tro genetic toxicity studies were negative toxicity studies were negative.			
1,3-Be	enzenedimethanami	ne:					
Genot	oxicity in vitro			ro genetic toxicity studies were negative toxicity studies were negative.			
Tetrac	decanol:						
Genot	oxicity in vitro	:	Remarks: In vit	ro genetic toxicity studies were negative			
Carcii	nogenicity						
<u>Produ</u>				te formal			
Rema	rks		No relevant da	la lound.			
<u>Comp</u>	oonents:						
	vclohexanebis(meth	-	-				
Rema	rks	:	No relevant da	ta found.			
Styre	nated phenol:						
Rema	rks	:	No relevant da	ta found.			
Trime	thyl-1,6-hexanedian	nine:					
Rema	rks	:	No relevant da	ta found.			
	enzenedimethanami /leneoxymethylene)			-[(1-methylethylidene)bis(4,1-			
Rema	rks	:	No relevant da	ta found.			
Salicy	/lic acid:						
-		:	Did not cause of	cancer in laboratory animals.			
Rema	iks is a second s	•					



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Rema	arks		:	: No relevant data found.				
	identified as pr OSHA No component			No relevant data found. No relevant data found. of this product present at levels greater than or equal to 0.1% is robable, possible or confirmed human carcinogen by IARC.				
IARC								
OSH/				this product prese regulated carcino	nt at levels greater than or equal to 0.1% is lens.			
NTP					t at levels greater than or equal to 0.1% is carcinogen by NTP.			
Repro	oductive to	oxicity						
<u>Produ</u> Effect	<b>uct:</b> is on fertility	y	:	Remarks: Contain reproduction in an	ns component(s) which did not interfere wit nimal studies.			
Effect	s on fetal d	levelopment	:	in lab animals at Contains compor	ns component(s) which caused birth defect doses nontoxic to the mother. ent(s) which, in laboratory animals, have fetus at doses nontoxic to the mother.			
<u>Comp</u>	oonents:							
	-	ebis(methyla	amir	-				
Effect	s on fertility	ý	:	Remarks: In anim tion.	al studies, did not interfere with reproduc-			
Effect	s on fetal d	levelopment	:	Remarks: Did not in laboratory anin	cause birth defects or any other fetal effected als.			
-	nated phe							
Effect	s on fertility	Ý	:	Remarks: No rele	vant data found.			
Effect	s on fetal d	levelopment	:	Remarks: No rele	vant data found.			
Trimethyl-1,6-hexanediami		e:						
	-unyi-1,0-in	cxanculation	-					
	s on fertility		:		only at doses that produced significant toxi			
Effect	s on fertility		:	have been seen of ty to the parent a	only at doses that produced significant toxic			
Effect Effect 1,3-B	s on fertility s on fetal d enzenedim	y levelopment nethanamine	: : , po	have been seen of ty to the parent a Remarks: Did not	only at doses that produced significant toxic nimals.			
Effect Effect 1,3-B	s on fertility s on fetal d enzenedim	y levelopment nethanamine nethylene)]bi	: : , po	have been seen of ty to the parent a Remarks: Did not	cause birth defects in laboratory animals. 1-methylethylidene)bis(4,1-			



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	o							
	-	<b>ic acid:</b> on fertility	:	tion.	al studies, did not interfere with reproduc- did not interfere with fertility.			
	Effects on fetal development		:	Remarks: Has caused birth defects in laboratory animals at doses nontoxic to the mother. Has been toxic to the fetus in lab animals at doses nontoxic the mother.				
	Reprod sessme	luctive toxicity - As- ent	:	Suspected humar ging the unborn c	n reproductive toxicant, Suspected of dama- hild.			
	Dodec	anol:						
		on fertility	:	Remarks: No rele	vant data found.			
	Effects	on fetal development	:	Remarks: No rele	vant data found.			
	1.3-Be	nzenedimethanamine	:					
		on fertility	:		al studies, did not interfere with fertility. did not interfere with reproduction.			
	Effects	on fetal development	:		cause birth defects or other effects in the es which caused toxic effects in the mother.			
	STOT-	single exposure						
	Produc	st:						
	Assess		:		ve. Material is not classified as a respiratory upper respiratory tract irritation or corrosivity			
	Compo	onents:						
	1,3-Cy	clohexanebis(methyla	ami	ne):				
	Assess	ment	:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.			
	Stvren	ated phenol:						
	Assess	-	:	Evaluation of avail an STOT-SE toxic	lable data suggests that this material is not cant.			
	Trimet	hyl-1,6-hexanediamin	e:					
	Assess		:	Evaluation of avai an STOT-SE toxic	lable data suggests that this material is not cant.			



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	enzenedimethanam yleneoxymethylene)		2'-[(1-methylethylidene)bis(4,1-
Asses	ssment		prrosive. Material is not classified as a respirator ver, upper respiratory tract irritation or corrosivit cted.
Salicy	ylic acid:		
Asses	ssment	: Evaluation of an STOT-SE	available data suggests that this material is not toxicant.
1,3-B	enzenedimethanam	ine:	
Asses	ssment	: Evaluation of an STOT-SE	available data suggests that this material is not toxicant.
STOT	-repeated exposure		
<u>Comp</u>	oonents:		
1,3-C	yclohexanebis(meth	ylamine):	
Asses	ssment		ce or mixture is not classified as specific target nt, repeated exposure.
Repe	ated dose toxicity		
<u>Produ</u>	<u>uct:</u>		
Rema	ırks		nal tract.
<u>Comp</u>	oonents:		
1,3-C	yclohexanebis(meth	ylamine):	
Rema	ırks		ailable data, repeated exposures are not o cause significant adverse effects.
Styre	nated phenol:		
Rema	ırks	: In animals, e organs: Nervous syst Gastrointesti Respiratory t	nal tract.
Trime	thyl-1,6-hexanediar	nine:	
Rema	-	: Based on ava	ailable data, repeated exposures are not o cause significant adverse effects.



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	Benzenedimethanami Nyleneoxymethylene)			1-methylethylidene)bis(4,1-
Rem	arks	:		le data, repeated exposures are not ise significant adverse effects.
Salic	cylic acid:			
Rem	arks	:	In animals, effect organs: Kidney. Liver.	s have been reported on the following
Dode	ecanol:			
Rem	arks	:		le data, repeated exposures are not ise significant adverse effects.
1,3-E	Benzenedimethanami	ne:		
Rem	arks	:	In animals, effect organs: Gastrointestinal tr	s have been reported on the following ract.

### Aspiration toxicity

### Product:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

### Components:

### 1,3-Cyclohexanebis(methylamine):

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

### Styrenated phenol:

Based on physical properties, not likely to be an aspiration hazard.

### Trimethyl-1,6-hexanediamine:

Based on available information, aspiration hazard could not be determined.

# 1,3-Benzenedimethanamine, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

### Salicylic acid:

Based on physical properties, not likely to be an aspiration hazard.



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#### Dodecanol:

May be harmful if swallowed and enters airways.

### 1,3-Benzenedimethanamine:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Components:

1,3-Cyclohexanebis(methylamine):							
Toxicity to fish :		Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).					
		LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h Method: Method Not Specified.					
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 29 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 or Equivalent					
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 276 mg/l End point: Growth rate inhibition Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent					
Toxicity to soil dwelling or- ganisms	:	EC50 (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 14 d End point: growth Method: Other guidelines					
Styrenated phenol:							
Toxicity to fish	:	Remarks: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).					
		LL50 (Brachydanio rerio (zebrafish)): 14.8 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes					
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna): > 1 - 10 mg/l Exposure time: 48 h Test Type: Static Method: OECD Test Guideline 202					

## SAFETY DATA SHEET



## D.E.H.<sup>™</sup> 630 Epoxy Hardener

Version 3.0	Revision Date: 04-08-2021		0S Number: 1269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
Toxic plants	ity to algae/aquatic	:	EL50 (Desmodes Exposure time: 72 Test Type: Static Method: OECD T GLP: yes	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 14 Test Type: flow-th Method: OECD T	nrough
	ity to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 2 Method: OECD T	1 d
	aquatic toxicity	:	Toxic to aquatic li	fe.
Trime	ethyl-1,6-hexanediamin	e:		
Toxic	ity to fish	:	acute basis (LC50 most sensitive sp	of aquatic systems to > pH 10 which may be
			LC50 (Leuciscus Exposure time: 48 Test Type: static	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 24	nagna (Water flea)): 31.5 mg/l 4 h
Toxic plants	ity to algae/aquatic	:	ErC50 (alga Scer End point: Growth Exposure time: 72	
Toxic	ity to microorganisms	:	EC50 (Bacteria): Exposure time: 17	
	enzenedimethanamine yleneoxymethylene)]bi			1-methylethylidene)bis(4,1-
	ity to fish	•	Remarks: Materia	al is moderately toxic to aquatic organisms o C50/EC50 between 1 and 10 mg/L in the ecies tested).
			Exposure time: 96 Test Type: static	
	ity to daphnia and other ic invertebrates	:	EL50 (Daphnia m Exposure time: 48	agna (Water flea)): 1.46 mg/l 8 h



/ersion 3.0	Revision Date: 04-08-2021		9S Number: 1269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
			Test Type: static t Method: OECD T	est est Guideline 202 or Equivalent
Toxicit plants	y to algae/aquatic	:	mg/l End point: Cell yie Exposure time: 72 Test Type: static	2 h
Toxicit	y to microorganisms	:	End point: Respira Exposure time: 3 Test Type: aerobi	h
Salicv	lic acid:			
	y to fish	:		I is slightly toxic to aquatic organisms on an )/EC50 between 10 and 100 mg/L in the ecies tested).
			LC50 (emerald sh Exposure time: 96 Method: Method N	
			LC50 (Leuciscus Exposure time: 48 Test Type: static t Method: Method N	est
	y to daphnia and other cinvertebrates	:	LC50 (Daphnia m Exposure time: 24 Method: Method N	
Toxicit	y to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD 20	
Dodeo	canol:			
	y to fish	:		I is highly toxic to aquatic organisms on an )/EC50 between 0.1 and 1 mg/L in the mos tested).
			Exposure time: 96 Test Type: flow-th	
	y to daphnia and other c invertebrates	:	Exposure time: 48	agna (Water flea)): 320 mg/l 3 h est Guideline 202 or Equivalent
Toxicit plants	y to algae/aquatic	:	EC50 (alga Scene End point: Growth	edesmus sp.): 0.97 mg/l rate inhibition



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			Exposure time: 96 Method: OECD T	6 h est Guideline 201 or Equivalent
M-Fa icity)	actor (Acute aquatic tox-	:	1	
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC (Daphnia n End point: number Exposure time: 2 Test Type: semi-s	1 d
M-Fa toxic	actor (Chronic aquatic ity)	:	1	
1,3-E	Benzenedimethanamine	:		
	city to fish	:		I is slightly toxic to aquatic organisms on an D/EC50 between 10 and 100 mg/L in the ecies tested).
			LC50 (Leuciscus Exposure time: 96	idus (Golden orfe)): 75 mg/l 5 h
	city to daphnia and other tic invertebrates	:	Exposure time: 48 Test Type: static	
	Toxicity to algae/aquatic plants		End point: Bioma Exposure time: 72 Test Type: static	2 h
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC (Daphnia r End point: numbe Exposure time: 2	
Tetra	adecanol:			
Toxic aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC (Daphnia i End point: numbe Exposure time: 2 Test Type: semi-s	1 d
M-Fa toxic	actor (Chronic aquatic ity)	:	1	
Toxic ganis	city to soil dwelling or- sms	:	(Eisenia fetida (e Exposure time: 7 End point: mortali	



ersion D	Revision Date: 04-08-2021	SDS Number: 101269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
Persis	stence and degrada	bility	
Comp	oonents:		
1,3-C	yclohexanebis(metł	ylamine):	
Biode	gradability	terial canne er, these re not biodeg Material is	Based on stringent OECD test guidelines, this ma- ot be considered as readily biodegradable; howev- esults do not necessarily mean that the material is radable under environmental conditions. ultimately biodegradable (reaches > 70% minerali ECD test(s) for inherent biodegradability).
		Exposure t Method: O	ation: 29 % ime: 28 d ECD Test Guideline 301B or Equivalent 10-day Window: Fail
		Exposure t Method: O	ation: 92 - 96 % ime: 28 d ECD Test Guideline 303A or Equivalent 10-day Window: Not applicable
ThOD		: 3.37 mg/m	g
Trime	thyl-1,6-hexanediar	nine:	
	gradability	: Result: No Remarks: I terial cann er, these re	t biodegradable. Based on stringent OECD test guidelines, this ma- ot be considered as readily biodegradable; howev- esults do not necessarily mean that the material is radable under environmental conditions.
		Biodegrada Exposure t Method: O	tion: 10 mg/l ation: 37 % ime: 21 d ECD Test Guideline 301E or Equivalent 10-day Window: Fail
		Biodegrada Exposure t Method: O	tion: 10,000 mg/l ation: 13 % ime: 28 d ECD Test Guideline 302B or Equivalent 10-day Window: Not applicable
		Biodegrada Exposure t Method: O	tion: 10 mg/l ation: 2.2 % ime: 3 d ECD Test Guideline 303A or Equivalent 10-day Window: Not applicable
ThOD	1	: 3.44 mg/m	g
	degradation		Half-life (indirect photolysis)



ersion .0	Revision Date: 04-08-2021	SDS Number: 101269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
		Sensitizer: Ol Rate constan Method: Estin	t: 8.407E-11 cm3/s
			2'-[(1-methylethylidene)bis(4,1-
-	yleneoxymethylene gradability	<b>)]bis[oxirane]:</b> : Result: Not bi	iodegradable.
		Remarks: Ma OECD/EEC g	terial is not readily biodegradable according t juidelines.
			n: 12 mg/l on: 0 %
Salic	ylic acid:		
Biode	gradability	Remarks: Ma	ily biodegradable. terial is readily biodegradable. Passes OECI dy biodegradability.
ThOD	)	: 1.62 mg/mg	
Photo	odegradation	Sensitizer: Ol	t: 1.300E-11 cm3/s
Dode	canol:		
Biode	gradability	Remarks: Ma	ily biodegradable. terial is readily biodegradable. Passes OECI dy biodegradability.
Tetra	decanol:		
Biode	gradability		terial is readily biodegradable. Passes OECI dy biodegradability. ow: Pass
		Biodegradation Exposure time	



ideline 107 or Equivalent ion potential is low (BCF < 100 or L
ata found.
ion potential is low (BCF < 100 or L
ylethylidene)bis(4,1-
BCF): 4.77
ion potential is low (BCF < 100 or L
°C)
ion potential is low (BCF < 100 or L
(BCF): 177
ion potential is moderate (BCF be- _og Pow between 3 and 5).



ersion D	Revision Date: 04-08-2021		S Number: 1269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
1,3-B	enzenedimethanami	ne:		
Partit	Partition coefficient: n- octanol/water			D Test Guideline 107 or Equivalent concentration potential is low (BCF < 100 or Log
Tetra	decanol:			
	ion coefficient: n- ol/water	:	Remarks: Bioc Log Pow betw	concentration potential is high (BCF > 3000 or een 5 and 7).
			Pow: 5.5 Method: Meas	ured
Cetyl	alcohol:			
	ion coefficient: n- ol/water	:	Remarks: No ı	elevant data found.
Mobi	lity in soil			
Com	ponents:			
1,3-C	yclohexanebis(meth	ylami	ne):	
	Distribution among environ- mental compartments		and 150). Given its very	ured ential for mobility in soil is high (Koc between 50 low Henry's constant, volatilization from natura er or moist soil is not expected to be an impor-
Trime	ethyl-1,6-hexanediam	nine:		
Distril	bution among environ- al compartments		and 2000). Given its very	ential for mobility in soil is low (Koc between 50 low Henry's constant, volatilization from natura r or moist soil is not expected to be an impor-
	enzenedimethanamii yleneoxymethylene)]			'-[(1-methylethylidene)bis(4,1-
	bution among environ- al compartments	:	Remarks: Exp 5000).	ected to be relatively immobile in soil (Koc >
			Adsorption/So Medium: Soil Koc: > 5000, lo Method: OECI	
Salic	ylic acid:			



Versior 8.0	n Revision Date: 04-08-2021		9S Number: 1269982	Date of last issue: 08-12-2020 Date of first issue: 04-08-2021
m	mental compartments		ween 0 and 50). Given its very low	tial for mobility in soil is very high (Koc bet- w Henry's constant, volatilization from natural or moist soil is not expected to be an impor-
Do	odecanol:			
Di	stribution among environ- ental compartments	:	Remarks: Potent 150 and 500).	tial for mobility in soil is medium (Koc between
			Koc: 327 Method: Estimat	ed.
Te	tradecanol:			
	stribution among environ- ental compartments	:	Remarks: No rel	evant data found.
Ce	etyl alcohol:			
Di	stribution among environ- ental compartments	:	Remarks: No rel	evant data found.
Ot	her adverse effects			
<u>Co</u>	omponents:			
1,	3-Cyclohexanebis(methy	/lamiı	ne):	
	esults of PBT and vPvB sessment	:	lating and toxic (	s not considered to be persistent, bioaccumu- PBT). This substance is not considered to be nd very bioaccumulating (vPvB).
Tr	imethyl-1,6-hexanediam	ine:		
Re	esults of PBT and vPvB sessment	:	lating and toxic (	s not considered to be persistent, bioaccumu- PBT). This substance is not considered to be nd very bioaccumulating (vPvB).
	B-Benzenedimethanamin henyleneoxymethylene)]l			(1-methylethylidene)bis(4,1-
	esults of PBT and vPvB sessment	•	lating and toxic (	s not considered to be persistent, bioaccumu- PBT). This substance is not considered to be nd very bioaccumulating (vPvB).
Re	<b>licylic acid:</b> esults of PBT and vPvB sessment	:	lating and toxic (	s not considered to be persistent, bioaccumu- PBT). This substance is not considered to be nd very bioaccumulating (vPvB).
	odecanol: esults of PBT and vPvB	:	This substance h	nas not been assessed for persistence, bioac-



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asses	sment		cumulation and to	oxicity (PBT).
Resul	<b>decanol:</b> ts of PBT and vPvB sment	:	This substance h cumulation and to	as not been assessed for persistence, bioac- oxicity (PBT).
Resul	<b>alcohol:</b> ts of PBT and vPvB sment	:	This substance h cumulation and to	as not been assessed for persistence, bioac- oxicity (PBT).

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal	methods
----------	---------

Waste from residues	<ul> <li>AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.</li> <li>THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composi- tion Information.</li> <li>All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.</li> <li>Regulations may vary in different locations.</li> <li>Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.</li> <li>DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.</li> <li>FOR UNUSED &amp; UNCONTAMINATED PRODUCT, the pre- ferred options include sending to a licensed, permitted:</li> </ul>

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG	
LIN numbe	r

UN number Proper shipping name	:	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanebis(methylamine))
Class	:	8
Packing group	:	II
Labels	:	8
IATA-DGR		
UN/ID No.	:	UN 2735
Proper shipping name	:	Amines, liquid, corrosive, n.o.s.
		(1,3-Cyclohexanebis(methylamine))
Class	:	8
Packing group	:	II
Labels	:	Corrosive



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aircra	ng instruction (passen-	:	855 851	
UN nu	<b>-Code</b> umber r shipping name	:		, CORROSIVE, N.O.S. bis(methylamine), Tetradecanol)
Labels	ng group s	:	8    8 	
EmS Marin Rema	e pollutant	:	F-A, S-B yes Stowage category	y AAlkalis

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

49 CFR		
UN/ID/NA number	: UN 2735	
Proper shipping name	: Amines, liquid, corrosive, (1,3-Cyclohexanebis(me	
Class	: 8	
Packing group	: 11	
Labels	: CORROSIVE	
ERG Code	: 153	
Marine pollutant	: no	
-		

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Acute toxicity (any route of exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US State Regulations		

#### Pennsylvania Right To Know



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	1,3-Benzenedime	ethana	amine	1477-55-0
Califo	ornia Prop. 65			
				o the State of California to cause cancer, birth would require a warning under the statute.
Interi	national Regulations			
Monti	real Protocol (Ozone D	Pepleti	ng Substances)	: Not applicable
Rotte	rdam Convention (Pric	or Info	rmed Consent)	: Not applicable
Stock	holm Convention (Per	sisten	t Organic Pollutan	ts) : Not applicable
The i	naredients of this pro	oduct	are reported in t	he following inventories:
CHIN	•	:	-	mponents are listed on the inventory, are
DSL		:		tains the following components listed on the All other components are on the Canadian
			methylethylidene	ethanamine, polymer with 2,2'-[(1- )bis(4,1- vthylene)]bis[oxirane]
AICS		:	All intentional context of a co	mponents are listed on the inventory, are upplier certified.
NZIO	C	:	not determined	
ENCS	6	:	All intentional context of a co	mponents are listed on the inventory, are upplier certified.
ISHL		:	All intentional context of a co	mponents are listed on the inventory, are upplier certified.
KECI		:	All intentional co	mponents are listed on the inventory, are upplier certified.
PICC	S	:	not determined	
IECS	С	:	All intentional con exempt, or are si	mponents are listed on the inventory, are upplier certified.
TCSI		:	All intentional con exempt, or are si	mponents are listed on the inventory, are upplier certified.
TSCA	A	:	All substances lis	sted as active on the TSCA Inventory or are e listed.

## **TSCA** list

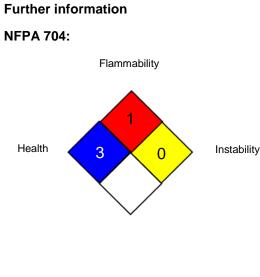
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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#### **SECTION 16. OTHER INFORMATION**



Special hazard

### Full text of other abbreviations

ACGIH OSHA P0	USA. ACGIH Threshold Limit Values (TLV) USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
ACGIH / C OSHA P0 / C	1910.1000 Ceiling limit Ceiling limit

AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of



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Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-08-2021

BLUE CUBE OPERATIONS LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDS obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

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