



Version	Revision Date:	SDS Number:	Date of last issue: 03-10-2021
4.0	10-29-2021	101265892	Date of first issue: 10-29-2021

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.R.™ 3401 Liquid Epoxy Resin
Product code	:	0000000100000209
Manufacturer or supplier's o	deta	ills
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	:	Resin for epoxy systems.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion	:	Category 1
Serious eye damage	:	Category 1
Skin sensitization	:	Sub-category 1A
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary Statements	:	Prevention:



rsion	Revision Date: 10-29-2021	SDS Number: 101265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
		P261 Avoid breat P264 Wash skin P272 Contamina the workplace. P280 Wear prote face protection.	thing dust/ fume/ gas/ mist/ vapors/ spray. thoroughly after handling. ted work clothing must not be allowed out of ctive gloves/ protective clothing/ eye protection/
		Response: P301 + P330 + P induce vomiting. P303 + P361 + P all contaminated P304 + P340 + P and keep comfor CENTER/ doctor P305 + P351 + P water for several and easy to do. C CENTER/ doctor P333 + P313 If sl attention. P363 Wash conta	 331 IF SWALLOWED: Rinse mouth. Do NOT 353 IF ON SKIN (or hair): Take off immediately clothing. Rinse skin with water/ shower. 310 IF INHALED: Remove person to fresh air table for breathing. Immediately call a POISON 338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON kin irritation or rash occurs: Get medical advice/ aminated clothing before reuse.
		Storage: P405 Store locke	d up.
		Disposal: P501 Dispose of posal plant.	contents/ container to an approved waste dis-
Other h	azards		

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propane, 2,2-bis[p-(2,3-	25085-99-8	60 - 70
epoxypropoxy)phenyl]-, polymers		
Reaction product of phenol-	28064-14-4	10 - 20
formaldehyde Novolac with epichlo-		
rohydrin		
1,4-Bis(2,3-epoxypropyloxy)butane	2425-79-8	5 - 15
Methyl p-toluenesulfonate	80-48-8	5 - 15

Actual concentration is withheld as a trade secret, Liquid Epoxy Resins (LERs) are made by reacting bisphenol A and epichlorohydrin. Olin uses both CAS No. 25085-99-8 and 1675-54-3 for its LERs. Other manufacturers use CAS No. 25068-38-6 for their LERs. Accordingly, LER manufacturers consider that derivatives of LERs may be described using either CAS number as a starting material.

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET



D.E.R.[™] 3401 Liquid Epoxy Resin

Version 4.0	Revision Date: 10-29-2021	SDS Number: 101265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
lf inha	aled	: Move perso	on to fresh air; if effects occur, consult a physician.
In ca	In case of skin contact		continued and thorough washing in flowing water 30 minutes is imperative while removing contami- ng. Prompt medical consultation is essential. ing before reuse. Properly dispose of leather items bes, belts, and watchbands. hergency safety shower facility should be immedia- le.
In ca	se of eye contact	: Wash imme least 30 mir nutes and c tion, prefera Suitable em available.	ediately and continuously with flowing water for at nutes. Remove contact lenses after the first 5 mi- continue washing. Obtain prompt medical consulta- ably from an ophthalmologist. hergency eye wash facility should be immediately
lf swa	allowed	: Do not indu water or mil not give any cious.	ce vomiting. Give one cup (8 ounces or 240 ml) of lk if available and transport to a medical facility. Do ything by mouth unless the person is fully cons-
Most and e delay	important symptoms effects, both acute and red	: Aside from measures(a fects are de	the information found under Description of first aid above)any additional important symptoms and ef- escribed in Section 11: Toxicology Information.
Prote	ection of first-aiders	: First Aid res and use the sistant glov If potential f personal pr	sponders should pay attention to self-protection e recommended protective clothing (chemical re- es, splash protection). for exposure exists refer to Section 8 for specific otective equipment.
Notes	s to physician	: Chemical e prompt con Due to irrita burns/ulcera tract with su cause lung lavage is do If burn is pr nation. No specific Treatment o symptoms a	ye burns may require extended irrigation. Obtain sultation, preferably from an ophthalmologist. Int properties, swallowing may result in ation of mouth, stomach and lower gastrointestinal ubsequent stricture. Aspiration of vomitus may injury. Suggest endotracheal/esophageal control if one. essent, treat as any thermal burn, after decontami- antidote. of exposure should be directed at the control of and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water fog or fine spray.
		Dry chemical fire extinguishers.
		Carbon dioxide fire extinguishers.
		Foam.
		Alcohol resistant foams (ATC type) are preferred. General
		purpose synthetic foams (including AFFF) or protein foams
		may function, but will be less effective.
		Water fog, applied gently may be used as a blanket for fire



Vers 4.0	ion	Revision Date: 10-29-2021	SD 10	9S Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
				extinguishment.	
	Unsuita media	ble extinguishing	:	Do not use direct May spread fire.	water stream.
	Specific hazards during fire fighting		:	Container may rup Violent steam gen tion of direct wate Dense smoke is e gen.	oture from gas generation in a fire situation. heration or eruption may occur upon applica- r stream to hot liquids. emitted when burned without sufficient oxy-
	Hazard ucts	ous combustion prod-	:	During a fire, smo tion to combustion be toxic and/or irr Combustion produ Phenolics. Carbon monoxide Carbon dioxide.	ke may contain the original material in addi- n products of varying composition which may itating. ucts may include and are not limited to:
	Further	information	:	Keep people awa Use water spray t fected zone until f sed. Fight fire from pro- the use of unman Immediately withor rising sound from container. Do not use direct Move container fr zard. Burning liquids mat tect personnel and Water fog, applied extinguishment. Contain fire water contained, may ca Review the 'Accid Information' section	y. Isolate fire and deny unnecessary entry. o cool fire exposed containers and fire af- ire is out and danger of reignition has pas- tected location or safe distance. Consider ned hose holders or monitor nozzles. draw all personnel from the area in case of venting safety device or discoloration of the water stream. May spread fire. om fire area if this is possible without ha- ay be moved by flushing with water to pro- d minimize property damage. d gently may be used as a blanket for fire run-off if possible. Fire water run-off, if not ause environmental damage. ental Release Measures' and the 'Ecological ons of this (M)SDS.
	Special for fire-	protective equipment fighters	:	Wear positive-pre (SCBA) and protecting helmet, coat, Avoid contact with If contact is likely, clothing with self- available, wear fu contained breathin location. For protective equiting the self- tuations, refer to the self-tuations, refer tuations, re	ssure self-contained breathing apparatus active fire fighting clothing (includes fire figh- trousers, boots, and gloves). In this material during fire fighting operations. In change to full chemical resistant fire fighting contained breathing apparatus. If this is not apparatus and fight fire from a remote apparatus and fight fire from a remote appment in post-fire or non-fire clean-up si- he relevant sections.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SAFETY DATA SHEET



D.E.R.[™] 3401 Liquid Epoxy Resin

Vers 4.0	ion	Revision Date: 10-29-2021	SD 101	S Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
	Person tive equ gency p	al precautions, protec- lipment and emer- procedures	:	Evacuate area. Only trained and p ved in clean-up op Keep upwind of sp Ventilate area of le Refer to section 7, asures.	properly protected personnel must be invol- perations. pill. eak or spill. Handling, for additional precautionary me-
	Environ	mental precautions	:	Prevent from ente and/or groundwate	ring into soil, ditches, sewers, waterways er. See Section 12, Ecological Information.
	Method contain	s and materials for ment and cleaning up	:	Contain spilled ma Absorb with mater Sand. Collect in suitable See Section 13, D mation.	aterial if possible. ials such as: and properly labeled containers. isposal Considerations, for additional infor-

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. Avoid breathing vapor. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.
Conditions for safe storage	:	Store in a cool, dry place.
Recommended storage tem- perature	:	< 95 °F / < 35 °C
Storage period	:	12 Months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a poten-



Version 4.0	Revision Date: 10-29-2021	SD 10	S Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
			tial to exceed the If there are no ap guidelines, wear such as respirato enced, or where For most conditio ded; however, if ved air-purifying	e exposure limit requirements or guidelines. oplicable exposure limit requirements or respiratory protection when adverse effects, ory irritation or discomfort have been experi- indicated by your risk assessment process. ons, no respiratory protection should be nee- material is heated or sprayed, use an appro- respirator.
Fi	lter type	:	The following shore the following shore the second	ould be effective types of air-purifying respi- rapor cartridge with a particulate pre-filter.
Hand	protection			
R	emarks	:	Use gloves chen preferred glove b vinyl alcohol lam ('nitrile' or 'NBR') nyl'). NOTICE: T lar application ar take into accoun not limited to: Ot cal requirements protection), pote well as the instru- supplier.	nically resistant to this material. Examples of parrier materials include: Butyl rubber. Ethyl inate ('EVAL'). Nitrile/butadiene rubber . Neoprene. Polyvinyl chloride ('PVC' or 'vi- he selection of a specific glove for a particu- nd duration of use in a workplace should also t all relevant workplace factors such as, but her chemicals which may be handled, physi- a (cut/puncture protection, dexterity, thermal ntial body reactions to glove materials, as actions/specifications provided by the glove
Eye p	protection	:	Use chemical go	ggles.
Skin	and body protection	:	Use protective cl Selection of spec or full body suit v	lothing chemically resistant to this material. cific items such as face shield, boots, apron, vill depend on the task.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid.	
Color	: Clear	
Odor	: Mild Phen	olic
Odor Threshold	: No test da	ata available
рН	: Not applic	able
Melting point/range	: Not applic	able
Freezing point	No test da	ata available
Boiling point/boiling range	: > 212 °F / Method: L	′ > 100 °C .iterature



Versi 4.0	ion	Revision Date: 10-29-2021	SD 101	S Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
	Flash p	oint	:	486 °F / 252 °C	
				Method: Literatur	re, closed cup
	Evapora	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable to	liquids
ł	Upper explosion limit / Upper flammability limit		:	No test data avai	ilable
 	Lower explosion limit / Lower flammability limit		:	No test data avai	ilable
,	Vapor p	pressure	:	Method: Literatur 0.000000046 Pa	re @ 25°C (based on major component)
	Relative	e vapor density	:	No test data avai	ilable
	Relative	e density	:	1.15 - 1.18 (77 °I Method: ASTM D	F / 25 °C) 0891
	Solubili Wat	ty(ies) er solubility	:	Insoluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	9
	Autoign	ition temperature	:	No test data avai	ilable
	Decom	position temperature	:	> 608 °F / > 320	°C
	Viscosi Visc	ty osity, dynamic	:	1,500 - 3,500 cP Method: ASTM [(77 °F / 25 °C)) 445
	Visc	osity, kinematic	:	No test data avai	ilable
	Explosi	ve properties	:	No	
	Oxidizir	ng properties	:	No	
	Molecu	lar weight	:	No test data avai	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



ersion .0	Revision Date: 10-29-2021	SD 101	S Number: 265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
Chem	nical stability	:	Stable under reconstruction 7.	ommended storage conditions. See Storage,
Possi tions	bility of hazardous reac-	:	Will not occur by Masses of more aliphatic amine w considerable hea	itself. than one pound (0.5 kg) of product plus an vill cause irreversible polymerization with t build-up.
Cond	itions to avoid	:	Avoid short term	exposures to temperatures above 300 °C
			Avoid prolonged	exposure to temperatures above 250 °C
			Potentially violen	t decomposition can occur above 350 °C
			Generation of ga in closed system Pressure build-u	s during decomposition can cause pressure s. o can be rapid.
Incon	npatible materials	:	Avoid contact wit Avoid contact wit Acids. Bases. Avoid unintended	h oxidizing materials. h: I contact with amines.
Haza produ	rdous decomposition acts	:	Decomposition p and the presence Gases are releas Uncontrolled exo phenolics, carbon	roducts depend upon temperature, air supply of other materials. ed during decomposition. thermic reaction of epoxy resins release n monoxide, and water.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Skin contact Ingestion Inhalation

Acute toxicity

May be harmful if swallowed or in contact with skin. Swallowing may result in burns of the mouth, throat, and gastrointestinal tract.

Product:

Acute oral toxicity	: Remarks: Low toxicity if swallowed. Swallowing may result in gastrointestinal irritation or ulcera- tion.
	LD50 (Rat): > 2,000 mg/kg Method: Estimated. Remarks: As product: Single dose oral LD50 has not been determined. Based on information for component(s):

SAFETY DATA SHEET



Version 4.0	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021		
Acu	ute inhalation toxicity	:	Remarks: At room due to low volatilit sols may cause re	Remarks: At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation.		
			Remarks: The LC	50 has not been determined.		
Acu	ute dermal toxicity	:	Remarks: Prolong sorption of harmfu	ed skin contact is unlikely to result in ab- Il amounts.		
			LD50 (Rabbit): > 2,000 mg/kg Method: Estimated. Remarks: As product: The dermal LD50 has not been determined. Based on information for component(s):			
<u>Co</u>	mponents:					
Pro	pane, 2,2-bis[p-(2,3-epo>	сур	ropoxy)phenyl]-, p	oolymers:		
Acu	ute oral toxicity	:	LD50 (Rat): > 15,	000 mg/kg		
Acu	ute inhalation toxicity	:	Remarks: The LC	50 has not been determined.		
Acu	ute dermal toxicity	:	LD50 (Rabbit): 23	,000 mg/kg		
Re	action product of phenol-	-for	maldehvde Novol	ac with epichlorohydrin:		
Aci	ute oral toxicity	:	LD50 (Rat): > 2,0 Symptoms: No de Assessment: The icity	00 mg/kg eaths occurred at this concentration. substance or mixture has no acute oral tox-		
Аси	ute inhalation toxicity	:	Remarks: At room due to low volatilit respiratory irritatio	n temperature, exposure to vapor is minimal ry; vapor from heated material may cause on.		
			Remarks: The LC	50 has not been determined.		
Acı	ute dermal toxicity	:	LD50 (Rat): > 2,0 Symptoms: No de Assessment: The toxicity	00 mg/kg aths occurred at this concentration. substance or mixture has no acute dermal		
1.4	-Bis(2.3-epoxypropyloxy))bu	tane:			
Acı	ute oral toxicity	:	LD50 (Rat): 1,163	3 mg/kg		
Acu	ute inhalation toxicity	:	Remarks: At room due to low volatilit Vapor from heater irritation.	n temperature, exposure to vapor is minimal ry. d material or mist may cause respiratory		
			Remarks: The LC	50 has not been determined.		
Аси	ute dermal toxicity	:	LD50 (Rat): > 2,1 Symptoms: No de	50 mg/kg eaths occurred at this concentration.		
			9 / 24			



Version 4.0	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
			Assessment: The toxicity	substance or mixture has no acute dermal
Me	ethyl p-toluenesulfonate:			
Ac	ute oral toxicity	:	LD50 (Rat): 341 r	ng/kg
Ac	ute inhalation toxicity	:	Remarks: The LC	50 has not been determined.
Ac	ute dermal toxicity	:	Remarks: The de	rmal LD50 has not been determined.
Sk Ca	in corrosion/irritation			
<u>Pr</u>	oduct:			
Re	marks	:	Brief contact may pain, severe local Prolonged contac may include pain, damage.	cause skin burns. Symptoms may include redness and tissue damage. t may cause severe skin burns. Symptoms severe local redness, swelling, and tissue
Co	omponents:			
Pr	opane, 2,2-bis[p-(2,3-epo	хур	ropoxy)phenyl]-, p	oolymers:
Re Re	esult emarks	:	Skin irritation Prolonged contac Repeated contact	t may cause skin irritation with local redness. may cause skin irritation with local redness.
Re	action product of phenol	-for	maldehvde Novol	ac with epichlorohvdrin:
Re	sult	:	No skin irritation	
Re	marks	:	Brief contact may ness.	cause slight skin irritation with local red-
1,4	I-Bis(2,3-epoxypropyloxy)but	tane:	
Re Re	esult emarks	:	No skin irritation Brief contact is es Prolonged contact redness and disco Repeated contact clude pain, severe age.	esentially nonirritating to skin. t may cause severe skin irritation with local omfort. t may cause skin burns. Symptoms may in- e local redness, swelling, and tissue dam-
Me	ethyl p-toluenesulfonate:			
Re Re	esult emarks	:	Corrosive Brief contact may pain, severe local Prolonged contac may include pain, damage.	cause skin burns. Symptoms may include redness and tissue damage. t may cause severe skin burns. Symptoms severe local redness, swelling, and tissue



Vers 4.0	sion	Revision Date: 10-29-2021	SI 10	DS Number:)1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021				
	Serious eve damage/eve irritation								
	Cause	Causes serious eye damage.							
	Produ	ct:							
	Remarks		:	: May cause severe irritation with corneal injury which may re- sult in permanent impairment of vision, even blindness. Chem ical burns may occur.					
	Comp	onents:							
	Propa	ne, 2,2-bis[p-(2,3-epo	хур	ropoxy)phenyl]-,	oolymers:				
	Result Remar	ks	:	Mild eye irritation May cause eye in Corneal injury is u	ritation. unlikely.				
	Reacti	on product of pheno	l-foi	maldehyde Novol	ac with epichlorohydrin:				
	Result		:	No eye irritation					
	Remar	ks	:	May cause slight Corneal injury is u	temporary eye irritation. unlikely.				
	1,4-Bis	s(2,3-epoxypropyloxy	/)bu	tane:					
	Result		:	Corrosive					
	Remarks		:	May cause sever sult in permanent ical burns may oc	e irritation with corneal injury which may re- impairment of vision, even blindness. Chem- ccur.				
	Methy	p-toluenesulfonate:							
	Result Remar	ks	:	Corrosive May cause sever sult in permanent ical burns may oc	e irritation with corneal injury which may re- impairment of vision, even blindness. Chem- ccur.				
	Respir	atory or skin sensitiz	zatio	on					
	Skin s	ensitization							
	May ca	ause an allergic skin re	acti	on.					
	Respir	atory sensitization	ahlo	information					
	Brodu		abie	information.					
	Assess	sment		The product is a s	skin sensitizer, sub-category 1A				
	Remar	ks		A component in the in humans. Contains component sitization in guine Contains component al for contact alle	his mixture has caused allergic skin reactions nent(s) which have caused allergic skin sen- a pigs. nent(s) which have demonstrated the potenti- rgy in mice.				
	Remar	ks	:	For respiratory se No relevant inforr	ensitization: nation found.				



Vers 4.0	sion	Revision Date: 10-29-2021	SI 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021			
	<u>Com</u>	ponents:						
	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers:							
	Asse Rema	ssment arks	:	The product is a Has caused aller Has demonstrate	skin sensitizer, sub-category 1B. rgic skin reactions in humans. ed the potential for contact allergy in mice.			
	Remarks		:	: For respiratory sensitization: No relevant data found.				
	Reac	tion product of phen	ol-for	maldehyde Novo	plac with epichlorohydrin:			
	Assessment Remarks Remarks		:	The product is a Has caused alle	skin sensitizer, sub-category 1B. rgic skin reactions when tested in guinea pigs.			
			:	: For respiratory sensitization: No relevant data found.				
	1,4-B	Bis(2,3-epoxypropylo	xy)bu	tane:				
	Asse	ssment	:	The product is a	skin sensitizer, sub-category 1A.			
	Rema	arks	:	Skin contact may Has caused alle	y cause an allergic skin reaction. rgic skin reactions when tested in guinea pigs.			
	Rema	arks	:	For respiratory s No relevant data	ensitization: found.			
	Meth	yl p-toluenesulfonate	e:					
	Asse Rema	ssment arks	:	Skin sensitizer Skin contact mag	y cause an allergic skin reaction.			
	Rema	arks	:	For respiratory s No relevant data	ensitization: i found.			
	Gern	n cell mutagenicity	vilabla	information				
	Brod							
	Gend	otoxicity in vitro	:	Remarks: Conta some in vitro ger Contains a comp netic toxicity stud	ins component(s) which were negative in netic toxicity studies and positive in others. ponent(s) which were negative in in vitro ge- dies.			
	<u>Com</u>	ponents:						
	Prop	ane, 2,2-bis[p-(2,3-ep	охур	ropoxy)phenyl]-,	polymers:			
	Genc	otoxicity in vitro	:	Remarks: In vitro some cases and Animal genetic to	o genetic toxicity studies were negative in positive in other cases. oxicity studies were negative.			
	Reac	tion product of phen	ol-for	maldehyde Novo	plac with epichlorohydrin:			
	Geno	otoxicity in vitro	:	Remarks: Anima	al genetic toxicity studies were negative.			





Version 4.0	Revision Dat 10-29-2021	e: SDS Number: 101265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
1.4-6	Bis(2.3-epoxypr	opvloxy)butane:	
Gen	otoxicity in vitro	: Remarks: some case Animal ger	n vitro genetic toxicity studies were negative in s and positive in other cases. netic toxicity studies were negative.
Meth	nyl p-toluenesul	fonate:	
Gen	otoxicity in vitro	: Remarks:	No relevant data found.
Carc	cinogenicity		
Not o	classified based	on available information.	
Proc Rem	<u>luct:</u> arks	: Many stud carcinoger Indeed, the Internation cluded tha hough som ported in a weight of e genic.	es have been conducted to assess the potential icity of diglycidyl ether of bisphenol A (DGEBPA). e most recent review of the available data by the al Agency for Research on Cancer (IARC) has con- DGEBPA is not classified as a carcinogen. Alt- ne weak evidence of carcinogenicity has been re- nimals, when all of the data are considered, the vidence does not show that DGEBPA is carcino-
<u>Com</u> Prop Rem	iponents: pane, 2,2-bis[p-(arks	2,3-epoxypropoxy)phe : Many stud carcinoger Indeed, the Internation cluded tha hough som ported in a weight of e	nyl]-, polymers: es have been conducted to assess the potential icity of diglycidyl ether of bisphenol A (DGEBPA). e most recent review of the available data by the al Agency for Research on Cancer (IARC) has con- c DGEBPA is not classified as a carcinogen. Alt- ne weak evidence of carcinogenicity has been re- nimals, when all of the data are considered, the vidence does not show that DGEBPA is carcino-
Rea Rem	ction product of arks	genic. phenol-formaldehyde : No relevan	Novolac with epichlorohydrin: t data found.
1,4-E	Bis(2,3-epoxypro	opyloxy)butane:	
Rem	arks	: Did not car	use cancer in animal skin painting studies.
Meth Rem	n yl p-toluenesul arks	fonate: : Did not can routes of e Positive re routes of e	use cancer in long-term animal studies which used xposure considered relevant to industrial handling. sults have been reported in other studies using xposure not relevant to industrial handling.
IAR	C No in identi	gredient of this product fied as probable, possib	present at levels greater than or equal to 0.1% is le or confirmed human carcinogen by IARC.
OSH	IA No co	omponent of this produc	present at levels greater than or equal to 0.1% is
		19	2/24



Versi 4.0	ion I	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
		on OSHA's lis	t of	regulated carcinog	ens.
	NTP	No ingredient identified as a	of t kn	his product present own or anticipated	t at levels greater than or equal to 0.1% is carcinogen by NTP.
	Reprodu	ictive toxicity			
	Not class	sified based on availa	ble	information.	
	Effects o	n fertility	:	Remarks: In anim ether of bispheno fere with reproduc	al studies, resins based on the diglycidyl I A (DGEBPA) have been shown not to inter- ction.
	Effects o	n fetal development	:	Remarks: Resins (DGEBPA) did no on the fetus when contact, the most rats or rabbits we	based on the diglycidyl ether of bisphenol A t cause birth defects or other adverse effects pregnant rabbits were exposed by skin likely route of exposure, or when pregnant re exposed orally.
	Compon	ents:			
	Propane	, 2,2-bis[p-(2,3-epox	ypi	ropoxy)phenyl]-, p	oolymers:
	Effects o	n fertility	:	Remarks: In anim tion.	al studies, did not interfere with reproduc-
	Effects o	n fetal development	:	Remarks: Resins (DGEBPA) did no on the fetus when contact, the most rats or rabbits we	based on the diglycidyl ether of bisphenol A t cause birth defects or other adverse effects pregnant rabbits were exposed by skin likely route of exposure, or when pregnant re exposed orally.
	Reactior	n product of phenol-	for	maldehyde Novol	ac with epichlorohydrin:
	Effects o	n fertility	:	Remarks: No rele	vant data found.
	Effects o	n fetal development	:	Remarks: No rele	vant data found.
	1,4-Bis(2	2,3-epoxypropyloxy))but	tane:	
	Effects o	n fertility	:	Remarks: No rele	vant data found.
	Effects o	n fetal development	:	Remarks: No rele	vant data found.
	Methyl p	-toluenesulfonate:			
	Effects o	n fertility	:	Remarks: No rele	vant data found.
	Effects o	n fetal development	:	Remarks: No rele	vant data found.
:	STOT-si	ngle exposure			
	Not class	sified based on availa	ble	information.	
<u> </u> ,	Product Assessm	<u>e</u> nt	:	Evaluation of avai	ilable data suggests that this material is not



sion	Revision Date: 10-29-2021	SDS Number: 101265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
		an STOT-SE	toxicant.
Com	oonents:		
Prop	ana 22-his[n-(23-or	oxynronoxy)nheny	II- nolymers:
Asses	ssment	: Evaluation of an STOT-SE	available data suggests that this material is no toxicant.
React	tion product of pher	ol-formaldehyde No	ovolac with epichlorohydrin:
Asses	ssment	: Evaluation of an STOT-SE	available data suggests that this material is no toxicant.
1,4-B	is(2,3-epoxypropylo	xy)butane:	
Asses	ssment	: Available data specific targe	a are inadequate to determine single exposure t organ toxicity.
Meth	yl p-toluenesulfonat	e:	
Asses	ssment	: Available data specific targe	a are inadequate to determine single exposure t organ toxicity.
STOT	-repeated exposure		
Not cl	assified based on ava	ailable information.	
Repe	ated dose toxicity		
Produ	uct:		
Rema	arks	: No relevant ir	nformation found.
<u>Comp</u>	oonents:		
Propa	ane, 2,2-bis[p-(2,3-ep	ooxypropoxy)pheny	l]-, polymers:
Rema	ırks	: Except for sk molecular we to cause any	in sensitization, repeated exposures to low ight epoxy resins of this type are not anticipat significant adverse effects.
React	tion product of pher	ol-formaldehyde No	ovolac with epichlorohydrin:
Rema	arks	: No relevant d	lata found.
1,4-B	is(2,3-epoxypropylo	xy)butane:	
Rema	arks	: No relevant d	lata found.
Methy	yl p-toluenesulfonat	e:	
Rema	arks	: No relevant d	lata found.
Asnir	ation toxicity		



Version	Revision Date:	SDS Number:	Date of last issue: 03-10-2021
4.0	10-29-2021	101265892	Date of first issue: 10-29-2021

Product:

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

Components:

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers:

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

Reaction product of phenol-formaldehyde Novolac with epichlorohydrin:

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

1,4-Bis(2,3-epoxypropyloxy)butane:

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

Methyl p-toluenesulfonate:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers:

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).
		LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.8 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	ErC50 (Scenedesmus capricornutum (fresh water algae)): 11 mg/l End point: Growth rate inhibition Exposure time: 72 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.3 mg/l End point: number of offspring Exposure time: 21 d Test Type: semi-static test
		MATC (Maximum Acceptable Toxicant Level) (Daphnia mag- na (Water flea)): 0.55 mg/l End point: number of offspring



Version 4.0	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021			
			Exposure time: 21 Test Type: semi-s	d tatic test			
Toxi	icity to microorganisms	:	IC50 (Bacteria): > 42.6 mg/l End point: Respiration rates. Exposure time: 18 h				
Rea	ction product of phenol	-for	maldehyde Novol	ac with epichlorohydrin:			
Tox	icity to fish	:	Remarks: Materia an acute basis (L0 most sensitive spo	I is moderately toxic to aquatic organisms on C50/EC50 between 1 and 10 mg/L in the ecies tested).			
			LC50 (Leuciscus Exposure time: 96	idus (Golden orfe)): 5.7 mg/l 5 h ast Guideline 203 or Equivalent			
_							
Toxi aqua	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 3.5 mg/l 3 h			
			Method: OECD To	est Guideline 202 or Equivalent			
1,4-	Bis(2,3-epoxypropyloxy)bu	tane:				
Тох	icity to fish	:	Remarks: Materia acute basis (LC50 most sensitive spo	I is slightly toxic to aquatic organisms on an)/EC50 between 10 and 100 mg/L in the ecies tested).			
			LC50 (Danio rerio Exposure time: 96 Test Type: static t Method: OECD Te	(zebra fish)): 19.8 mg/l 5 h est est Guideline 203			
Toxi aqui	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 24 Test Type: static t Method: OECD To	agna (Water flea)): 75 mg/l l h est est Guideline 202			
Toxi plan	icity to algae/aquatic ts	:	EL50 (Pseudokirc mg/l	hneriella subcapitata (green algae)): > 160			
			End point: Growth	rate inhibition ? h			
			Test Type: static t Method: OECD Te	est est Guideline 201			
Met	hyl p-toluenesulfonate:						
Tox	icity to fish	:	Remarks: No rele	vant data found.			
Pers	sistence and degradabil	ity					
<u>Co</u> n	nponents:	-					
Pro	pane, 2,2-bis[p-(2,3-epo)	xyp	ropoxy)phenvll r	polymers:			
Bioc	legradability	:	Result: Not biode Remarks: Based	gradable. on stringent OECD test guidelines, this ma-			



rsion	Revision Date: 10-29-2021	SDS Number: 101265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
		terial cannot b er, these resu not biodegrad	be considered as readily biodegradable; howev- Its do not necessarily mean that the material is lable under environmental conditions.
		aerobic Biodegradatic Exposure time Method: OEC Remarks: 10-	n: 12 % e: 28 d D Test Guideline 302B or Equivalent day Window: Not applicable
ThOD		: 2.35 mg/mg Method: Estin	nated.
Photodegradation		: Test Type: Ha Sensitizer: Of Rate constant Method: Estin	alf-life (indirect photolysis) H radicals I: 6.69E-11 cm3/s nated.
React	ion product of phe	nol-formaldehyde No	ovolac with epichlorohydrin:
Biodegradability		: Result: Not bi Remarks: Bas terial cannot k er, these resu not biodegrad	odegradable. sed on stringent OECD test guidelines, this ma- be considered as readily biodegradable; howev- lts do not necessarily mean that the material is able under environmental conditions.
		Biodegradatic Exposure time Method: OEC Remarks: 10-	n: 10 - 16 % e: 28 d D Test Guideline 301B or Equivalent day Window: Fail
1,4-Bi	s(2,3-epoxypropylo	oxy)butane:	
Biode	gradability	: Result: Not bi Remarks: Bas terial cannot b er, these resu not biodegrad	odegradable. sed on stringent OECD test guidelines, this ma- be considered as readily biodegradable; howeven Its do not necessarily mean that the material is able under environmental conditions.
		Inoculum: Act Concentratior Biodegradatic Exposure time Method: OEC Remarks: 10-	ivated sludge, non-adapted n: 20 mg/l n: 43 % e: 28 d D Test Guideline 301F or Equivalent day Window: Fail
Photodegradation		: Test Type: Ha Sensitizer: Of Rate constant	alf-life (indirect photolysis) H radicals t: 3.71E-11 cm3/s

Components:

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers:



ersion 0	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021			
Bioaccumulation		:	Remarks: Biocon tween 100 and 3	ks: Bioconcentration potential is moderate (BCF be- 100 and 3000 or Log Pow between 3 and 5).			
Partiti octan	Partition coefficient: n- octanol/water		: log Pow: 3.242 (77 °F / 25 °C) pH: 7.1 Method: Estimated. GLP: yes				
React	tion product of pheno	l-for	maldehvde Novo	ac with enichlorohydrin:			
Partiti	on coefficient: n- ol/water	:	Remarks: No rele	evant data found.			
Methy	vl p-toluenesulfonate:						
Partiti octan	on coefficient: n- ol/water	:	Remarks: No rele	evant data found.			
Mobil	lity in soil						
Comp	oonents:						
Propa	ane, 2,2-bis[p-(2,3-epc	хур	ropoxy)phenyl]-,	polymers:			
Distrik menta	oution among environ- al compartments	:	Koc: 1800 - 4400 Method: Estimate Remarks: Potent and 2000). Given its very low bodies of water of tant fate process	ed. ial for mobility in soil is low (Koc between 500 v Henry's constant, volatilization from natural r moist soil is not expected to be an impor-			
React	tion product of phono	l_for	maldebyde Novo	lac with enichlorohydrin			
Distrik	oution among environ- al compartments	:	Remarks: No dat	a available.			
1 4-B	is(2.3-enoxypronyloxy	v)bu	tane:				
Distrik menta	oution among environ- al compartments	:	Koc: 10 Method: Estimate Remarks: Potent ween 0 and 50).	ed. ial for mobility in soil is very high (Koc bet-			
Other	adverse effects						
Comp	oonents:						
Propa	ane, 2,2-bis[p-(2,3-epc	охур	ropoxy)phenyl]	polymers:			
Resul asses	ts of PBT and vPvB sment	:	This substance is lating and toxic (I very persistent a	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be and very bioaccumulating (vPvB).			
React	tion product of pheno	l-for	maldehvde Novo	lac with epichlorohvdrin:			
Resul asses	ts of PBT and vPvB sment	:	Remarks: No dat	a available			
			10/24				



Versi 4.0	ion	Revision Date: 10-29-2021	SE 10	DS Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021
,	Additio mation	nal ecological infor-	:	No data available	
	1,4-Bis	(2,3-epoxypropyloxy)but	tane:	
:	Results of PBT and vPvB assessment		:	This substance is lating and toxic (F very persistent ar	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be ad very bioaccumulating (vPvB).
	Ozone	Depletion Potential	:	Remarks: This su of substances that	ibstance is not on the Montreal Protocol list it deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels	: : : : : : : : : : : : : : : : : : : :	UN 1760 CORROSIVE LIQUID, N.O.S. (Methyl p-toluenesulfonate) 8 III 8
IATA-DGR UN/ID No. Proper shipping name Class Packing group	: :	UN 1760 Corrosive liquid, n.o.s. (Methyl p-toluenesulfonate) 8 III



Vers 4.0	sion	Revision Date: 10-29-2021	SD 10 ⁻	S Number: 1265892	Date of last issue: 03-10-2021 Date of first issue: 10-29-2021	
	Labels Packing aircraft) Packing ger airc	instruction (cargo instruction (passen- raft)	:	Corrosive 856 852		
	IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant Remarks			UN 1760 CORROSIVE LIQUID, N.O.S. (Methyl p-toluenesulfonate, Epoxy resin) 8 III 8 F-A, S-B yes Stowage category A		
	Transport in bulk according Not applicable for product as s			Annex II of MARPO blied.	OL 73/78 and the IBC Code	
	Domestic regulation					

49 CFR UN/ID/NA number Proper shipping name	:	UN 1760 Corrosive liquids, n.o.s. (Methyl p-toluenesulfonate)
Class	:	8
Packing group	:	111
Labels	:	CORROSIVE
ERG Code	:	154
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
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



Vers 4.0	sion	Revision Date: 10-29-2021	SE 10	OS Number: 1265892	Date Date	e c e c	of last issue: 03-10-2021 of first issue: 10-29-2021		
		Methyl p-toluenes	ulfon	ate			80-48-8		
	California Prop. 65								
	This pr defects	roduct contains no liste s or other reproductive	ed su harr	ibstances known to n, at levels which v	o the \$ vould	Sta I re	ate of California to cause cancer, birth equire a warning under the statute.		
	Interna	ational Regulations							
	Montre	al Protocol				:	Not applicable		
	Rottero	dam Convention (Prior	Info	rmed Consent)		:	Not applicable		
	Stockh	olm Convention (Pers	isten	t Organic Pollutant	s)	:	Not applicable		
	The in	aredients of this pro	duct	are reported in th	ne fol	llo	wing inventories:		
	CH INV	V	:	All intentional con	npone	en	ts are listed on the inventory, are		
				exempt, or are su	pplie	r c	certified.		
	DSL		:	All substances co	ntain	ed	in this product are listed on the		
				Canadian Domes to be listed.	tic Su	upa	stances List (DSL) or are not required		
	AICS		:	All intentional con exempt, or are su	npone Ipplie	en r c	ts are listed on the inventory, are certified.		
	NZIoC		:	All intentional con	npone	en r c	ts are listed on the inventory, are		
	ENCS		:	All intentional con exempt, or are su	npone Ipplie	en r c	ts are listed on the inventory, are certified.		
	ISHL		:	All intentional con	npone	en	ts are listed on the inventory, are		
				exempt, or are su	pplie	r c	certified.		
	KECI		:	All intentional con	npone	en	ts are listed on the inventory, are		
				exempt, or are su	pplie	r c	certified.		
	PICCS	5	:	All intentional con	npone	en	ts are listed on the inventory, are		
				exempt, or are su	pplie	r c	certified.		
	IECSC	;	:	All intentional con exempt, or are su	npone Ipplie	en r c	ts are listed on the inventory, are certified.		
	TCOL			All intentional com	0000	~ ~	to are listed on the inventory are		
	1031		:	exempt, or are su	ipplie	r c	certified.		
	TSCA		:	All substances lis	ted a	s a	active on the TSCA Inventory or are		
				not required to be	liste	d.			

TSCA list

No substances are subject to a Significant New Use Rule.

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





SECTION 16. OTHER INFORMATION



Full text of other abbreviations

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 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 Amend-





Version	Revision Date:	SDS Number:	Date of last issue: 03-10-2021
4.0	10-29-2021	101265892	Date of first issue: 10-29-2021

ments 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 : 10-29-2021

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.

US/Z8