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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008								
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking							
1.1	Product	oduct Code: 22741 oduct Name: Pseudoephedrine t-butyl Carbamate nonyms: t-BOC Pseudoephedrine; N-Butoxycarbonyl-Pseudoephedrine;						
1.2			of the substance or mixture and uses advised against:					
	Releva	ant identified uses:	For research use only, no	ot for human or veteri	inary use.			
1.3		of the Supplier of the any Name:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any				
		ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Comp	any	+1 (734	4)971-3335		
1.4	-	ncy telephone numbe Jency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887		
			Section 2. Haz	zards Identific	ation			
2.1 2.2		cation of the Substan ements:	ce or Mixture:					
2.3	GHS Signal Word: None GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					piratory tract. been thoroughly investigated.		
	Section 3. Composition/Information on Ingredients CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification							
	CS #	REACH Registration	-		EC Index No.			
NA NA		Pseudoephedrine t-butyl	Carbamate	100.0 %	NA NA	No data available.		

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		Section 4. First Aid Measures				
4.1	4.1 Description of First Aid					
	Measures:					
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.				
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.				
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.				
		Section 5. Fire Fighting Measures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
	Media:	Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing Media:	a A solid water stream may be inefficient.				
5.2	Flammable Properties an Hazards:	dNo data available.				
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3	Methods and Material For Contain spill and collect, as appropriate.					
	Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.				
		Section 7. Handling and Storage				
 7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2		Neep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

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	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls U	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipm	nent:					
	Eye Protection: Safety glasses						
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower					
	V	/ash thoroughly after handling.					
	No data available.						
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or n	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):						
	Solubility in Water:	No data.					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature						
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	t: C15H23NO3 265.4					
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			Section 10. Stability a	nd Reacti	vity			
10.1	0.1 Reactivity: No data available.							
10.2	Stability		Unstable [] Stable [X]					
10.3 Stability Note(s): Stable if stored in accordance with information liste					on the product	insert.		
	Polymerization:		Will occur [] Will not occur [X]					
10.4	10.4 Conditions To Avoid:		No data available.					
10.5	.5 Incompatibility - Materials No data available.							
	To Avoic	:						
10.6	Hazardo	us	No data available.					
Decomposition or								
	Byprodu	cts:						
			Section 11. Toxicologic	al Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produc	have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	Pseudoephedrine	e t-butyl Carbamate	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologica	l Informat	ion			
12.1	Toxicity:		Avoid release into the environment.	innonnat				
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3 Bioaccumulative No data available.								
	Potentia	:						
12.4								
12.5 Results of PBT and vPvB		of PBT and vPvB	3 No data available.					
	assessment:							
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal C	onsiderat	ions			
13.1	Waste Di	sposal Method:	Dispose in accordance with local, state					
			Section 14. Transpor	t Informat	ion			
14.1	LAND T	RANSPORT (US I	•					
DOT Proper Shipping Name: Not dangerous goods.								
	OT Hazaro							
U U	N/NA Num	iber:						
14.1 LAND TRANSPORT (European ADR/RID):								
A	DR/RID SH	hipping Name:	Not dangerous goods.					
υ	N Number	:						
н	azard Clas	ss:						



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14.3 AIR TRANSPORT (ICAO/IAT	A):
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ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	Pseudoephedrine t-butyl Carbamate		No	No	No	
CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists		-		
NA	Pseudoephedrine t-butyl Carbamate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Ir Statement:	formation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatio	on		
Revision Date:		07/06/2017				
Additional Information About		No data available.				
This Product	:					
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.				