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SAFETY DATA SHEET **Ebselen Oxide**

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Revision: 10/29/2018 Supersedes Revision: 02/06/2015 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking **Product Code:** 10012298 **Product Name:** Ebselen Oxide Synonyms: 1-oxide-2-phenyl-1,2-benzisoselenazol-3(2H)-one; NSC 639772; Relevant identified uses of the substance or mixture and uses advised against: 1.2 Relevant identified uses: For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 Emergency telephone number: **Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification **Classification of the Substance or Mixture:** Acute Toxicity: Inhalation, Category 3 Acute Toxicity: Oral, Category 3 Specific Target Organ Toxicity (repeated exposure), Category 2 Aquatic Toxicity (Acute), Category 1 Aquatic Toxicity (Chronic), Category 1 2.2 Label Elements: **GHS Signal Word:** Danger **GHS Hazard Phrases:** H301: Toxic if swallowed. H331: Toxic if inhaled. H373: May cause damage to {organs} through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. **GHS Precaution Phrases:** P260: Do not breathe {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P273: Avoid release to the environment. **GHS Response Phrases:** P301+310: IF SWALLOWED: Immediately P311: Call a POISON CENTER or doctor/physician. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P314: Get medical attention/advice if you feel unwell. P321: Specific treatment {see ... on this label}. P330: Rinse mouth. P391: Collect spillage. GHS Storage and Disposal Phrases:

Multi-region format



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2.3	Advers	e refer to Section 7 se Human Health s and Symptoms:	for Storage and Section 13 for Material may be irritating to t May be harmful by skin abso May cause damage to {orgal May cause eye, skin, or resp Toxic if inhaled or swallowed Very toxic to aquatic life with To the best of our knowledge	he mucous membr orption. ns} through prolong piratory system irrita I. long lasting effects	anes and upper re ged or repeated ex ation.			
		Sec	tion 3. Composition	/Information	on Ingredie	ents		
RTECS # REACH Registrat			ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
10447 NA	73-83-8	Ebselen Oxide		100.0 %	802-451-6 NA	Acute Tox.(O) 3: H301 Acute Tox.(I) 3: H331 STOT (RE) 2: H373 Aquatic (A) 1: H400 Aquatic (C) 1: H410		
			Section 4. Fi	rst Aid Meas	sures			
	In Case In Case	e of Inhalation: e of Skin Contact: e of Eye Contact: e of Ingestion:	Get immediate medical atten Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush and tested by medical person Wash out mouth with water p unconscious person. Get me medical personnel.	tion. soap and plenty of yon if symptoms occur eyes with plenty of nnel. provided person is o dical attention. Do	water for at least 1 ur. Wash clothing water for at least conscious. Never NOT induce vomi	give oxygen by trained personnel. 15 minutes. Remove contaminated before reuse. 15 minutes. Have eyes examined give anything by mouth to an ting unless directed to do so by		
			Section 5. Fire	Fighting Me	easures			
5.1	Media:	able Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be	exposed containers		al spray.		
5.2	Hazard Flash F Explos Autoig	ls: Pt: ive Limits: nition Pt:	ndNo data available. No data available. No data. LEL: No data. No data.	UEL: No o				
5.3	Fire Fi	ghting Instruction	s: As in any fire, wear self-cont equivalent), and full protectiv					



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		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.					
	Protective Equipment and	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.					
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		Section 7. Handling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taken	Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Secti	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equip	Personal protection equipment:					
	Eye Protection:	glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:	Lab coat					
	Respiratory Equipment	Happroved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan						
		ities storing or utilizing this material should be equipped with an eyewash facility and a safety					
		shower.					
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
9.1		ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid No data.					
	pH: Malting Daint:	No data.					
	Melting Point: 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						
	Hg):						
	Vapor Density (vs. Air = 1)	: No data.					
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		Multi-region format					

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	Ebselen Oxide	40/00/0040			
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Specific Gravity (Water :	= 1): No data.				
Solubility in Water:	No data.				
Solubility Notes:	~0.15 mg/ml in PBS (pH 7.2); ~10 mg/ml in EtOH, DMSO, & DMF;				
Octanol/Water Partition	No data.				
Coefficient:					
Autoignition Pt:	No data.				
Decomposition Tempera	rature: No data.				
Viscosity:	No data.				
Other Information					
Percent Volatile:	No data.				
Molecular Formula & We	leight: C13H9NO2Se 290.2				
Section 10. Stability and Reactivity					
Reactivity:	No data available.				
Stability:	Unstable [] Stable [X]				
Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
Polymerization:	Will occur [] Will not occur [X]				
Conditions To Avoid:	No data available.				
Incompatibility - Materia	als strong oxiding agent				
To Avoid:					
Hazardous	carbon dioxide				
Decomposition or	carbon monoxide				
Byproducts:	nitrogen oxides				
	selenium/selenium oxides				

Section 11. Toxicological Information

- The toxicological effects of this product have not been thoroughly studied.
- **Toxicological Effects:**

Information on

CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
104473-83-8		Ebselen Oxide		n.a.	n.a.	n.a.	n.a.		
		·	Section 12. Ecological Ir	formatio	n	·	·		
12.1	Toxicity:		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence and Degradability:		No data available.						
12.3	Bioaccumulative Potential:		No data available.						
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	No data available.						

assessment: 12.6 Other adverse effects: No data available.



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CHEMICAL		• ··· ··· -··		•	ersedes Revision: 02/06/2015	
		Section 13. Dispo				
13.1 Waste D	Disposal Method:	Dispose in accordance with lo	cal, state, and federal	regulations.		
		Section 14. Trar	nsport Informa	tion		
14.1 LAND 1	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	: Selenium compound, solic	l, n.o.s. (Ebselen sele	noxide)		
DOT Hazar	d Class:	6.1 POISON				
UN/NA Number:		UN3283	Packing Group:		Ш	
		POISON 6				
	RANSPORT (Eur					
	hipping Name:	Selenium compound, solic		-		
UN Numbe		3283	Packing Gro	up:	III	
Hazard Cla		6.1 - POISON				
	ANSPORT (ICAO/	-				
	Shipping Name:	Selenium compound, solic		-		
UN Numbe		3283	Packing Gro	-	 	
Hazard Cla		6.1 - POISON	IATA Classif		6.1	
Additional Tra	nsport	Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of				
Information:		-	-	-		
		E1, E2, E4, or E5, this item me Therefore packaging does not		•	•	
				-		
		Section 15. Regu	llatory Informa	ition		
•	-	nents and Reauthorization Act	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
104473-83-8	Ebselen Oxide		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or			
104473-83-8	Ebselen Oxide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	ormation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Ot	her Informatio	n		
Revision Date:		10/29/2018				
Additional Info	rmation About	No data available.				
Additional Information About 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.				
					Multi vasian faur	
					Multi-region forr	