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	0 4 4	dentification of the Outpeterner (Minterner	o Compony // Indentatives						
	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking						
.1	Product Code:	29517							
	Product Name:	Imetit (hydrobromide)							
	Synonyms:	carbamimidothioic acid, 2-(1H-imidazol-5-yl)ethyl ester, dihydrobromide; VUF 8325;							
2	Relevant identified uses o	f the substance or mixture and uses advised ag	ainst:						
	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	. 4 (704)074 0005						
	Information:	Cayman Chemical Company	+1 (734)971-3335						
.4	Emergency telephone nur								
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300						
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887						
		Section 2. Hazards Identific	ation						
1	Classification of the Subs	tance or Mixture:							
	Skin Corrosion/Irritation	, Category 2							
	Serious Eye Damage/Ey	e Irritation Category 2							
.2		oxicity (single exposure), Category 3							
.2	Specific Target Organ T								
2	Specific Target Organ T								
2	Specific Target Organ To Label Elements:	oxicity (single exposure), Category 3							
2	Specific Target Organ T Label Elements: GHS Signal Word:	oxicity (single exposure), Category 3 Warning							
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases:	oxicity (single exposure), Category 3 Warning							
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	oxicity (single exposure), Category 3 Warning on. e irritation.							
2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye	oxicity (single exposure), Category 3 Warning on. e irritation. ory irritation.							
.2	Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirat GHS Precautionary Phra	oxicity (single exposure), Category 3 Warning on. e irritation. ory irritation.							
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.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirat GHS Precautionary Phra P261: Avoid breathing {du P264: Wash {hands} thore	warning warning on. e irritation. ory irritation. ases: ast/fume/gas/mist/vapors/spray}.	on}.						
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	UFI:								
2.3	Advers	e Human Health	Causes serious eye irritation.						
	Effects and Symptoms:		Causes skin irritation.						
			Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.						
			May cause respiratory system irritation.						
			To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
		Sect	ion 3. Composition	/Information	on Ingredie	nts			
-		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
32385-58-3		Imetit (hydrobromide)		100.0 %	636-517-9	Skin Corr. 2: H315			
FD308	FD3086000				NA	Eye Damage 2: H319 STOT (SE) 3: H335			
		•	Section 4. Fi	rst Aid Measu	ures	•			
4.1	-	otion of First Aid							
	Measu								
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						
	In Case	e 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined						
	In Case	e of Eye Contact:							
	and tested by medical				Nover a	ive envithing by mouth to an			
	in Case	e of Ingestion:	Wash out mouth with water p	-	-				
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.						
			medical personnel.						
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitabl	e Extinguishing	-			spray.			
5.1	Suitabl Media:	e Extinguishing	Section 5. Fire	arbon dioxide, wate		spray.			
5.1	Media: Unsuita	able Extinguishing	Section 5. Fire	carbon dioxide, wate exposed containers.		spray.			
	Media: Unsuita Media:	able Extinguishing	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be	carbon dioxide, wate exposed containers.		spray.			
	Media: Unsuita Media:	able Extinguishing able Properties an	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e	carbon dioxide, wate exposed containers.		spray.			
	Media: Unsuita Media: Flamma	able Extinguishing able Properties an	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be	carbon dioxide, wate exposed containers.		spray.			
	Media: Unsuita Media: Flamma	able Extinguishing able Properties an s:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available.	carbon dioxide, wate exposed containers.		spray.			
	Media: Unsuita Media: Flamm Hazard Flash F	able Extinguishing able Properties an s:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-e A solid water stream may be dNo data available. No data available.	carbon dioxide, wate exposed containers.	r, or dry chemical	spray.			
	Media: Unsuita Media: Flamm Hazard Flash F Explos	able Extinguishing able Properties an s: Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data.	carbon dioxide, wate exposed containers. inefficient.	r, or dry chemical	spray.			
5.1	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data.	carbon dioxide, wate exposed containers. inefficient. UEL: No da	r, or dry chemical				
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved o			
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved or			
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved or			
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved or			
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved or			
5.2	Media: Unsuita Media: Flamm Hazard Flash F Explos Autoign	able Extinguishing able Properties an s: Pt: ive Limits: nition Pt:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available. No data available. No data. LEL: No data. No data.	arbon dioxide, wate exposed containers. inefficient. UEL: No da ained breathing appa	r, or dry chemical ata. aratus pressure-d	emand (NIOSH approved or			

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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	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 regulation								
	Up:							
		Section 7. Handling and Storage						
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.						
	•	Avoid prolonged or repeated exposure.						
7.2		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		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:	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.						
	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.							
Wash thoroughly after handling.								
		No data available.						
	Se	ction 9. Physical and Chemical Properties						
9.1	Information on Basic Physi	cal 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 Hg):	mm No data.						
	пу): Vapor Density (vs. Air = 1)	No data.						
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	Specific Gravity (Water	= 1):	No data.						
	Solubility in Water:		No data.						
	Solubility Notes:		~100 mM ir	n water;					
	Octanol/Water Partition		No data.						
	Coefficient:								
	Autoignition Pt:		No data.						
	Decomposition Temper	ature:	No data.						
	Viscosity:		No data.						
9.2	Other Information								
0.2	Percent Volatile:		No data.						
	Molecular Formula & W	oiaht:	C6H10N4S	• 2LIDr	332.1				
		eigint.	00111014-0		332.1				
		S	ection 1	0. Stab	oility and	Reacti	vity		
10.1	Reactivity:	No dat	a available.						
10.2	Stability:	Unstal	ble[] S	table [X]					
10.3	Stability Note(s):	Stable	able if stored in accordance with information listed on the product insert.						
	Polymerization:	Will oc	Il occur [] Will not occur [X]						
10.4	Conditions To Avoid:	No dat	a available.						
10.5	Incompatibility - Materia			ents					
	To Avoid:		onag ug	00					
10.6	Hazardous	carbor	dioxide						
10.0	Decomposition or		carbon dioxide carbon monoxide hydrogen bromide gas						
	Byproducts:								
	Byproducts.		nitrogen oxides						
		sulfur							
		Se	ction 11	. Toxic	ological	Inform	ation		
11.1	Information on							udied.	
	Toxicological Effects:		The toxicological effects of this product have not been thoroughly studied. Imetit (hydrobromide) - Toxicity Data: Oral TDLO (mouse): 30 mg/kg; Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
	Chronic Toxicological								
	Effects:	•	e actual entry in RTECS for complete information.						
	Linoto.		-		Number: FI				
CAS	# Userardaus Ca					NTP		ACGIH	OSHA
		-		Name)			IARC		
3238	85-58-3 Imetit (hydrobro	mide)				n.a.	n.a.	n.a.	n.a.
		S	Section 1	2. Eco	logical lı	nformat	tion		
12.1 Toxicity: Avoid release into the environment.									
		Runoff from fire control or dilution water may cause pollution.							
12.2	Persistence and		No data available.						
	Degradability:								
12.3	12.3 Bioaccumulative No data available. Potential:								
12.4	Mobility in Soil:		o data available.						
12.5	Results of PBT and vPv	B No da	No data available.						
	assessment:								
12.6	Other adverse effects:	No da	a available.						
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Section 13. Disposal Considerations								
13.1 Waste D	isposal Method:	Dispose in accordance with loca	I, state, and federal r	egulations.				
	Section 14. Transport Information							
14.1 LAND T	RANSPORT (US	DOT):						
DOT Prope	r Shipping Name	: Not dangerous goods.						
DOT Hazaro								
UN/NA Nun								
	-	opean ADR/RID):						
	hipping Name:	Not dangerous goods.						
UN Number Hazard Clas								
	NSPORT (ICAO/	ΙΔΤΔ)·						
	Shipping Name:							
UN Number			Packing Grou	ıp:				
Hazard Clas	SS:		-					
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.				
Information:								
		Section 15. Regul	atory Informa	tion				
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists					
CAS #	Hazardous Com	nponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
32385-58-3	Imetit (hydrobror	nide)	No	No	No			
CAS #	Hazardous Com	nponents (Chemical Name)	Other US EPA or S	State Lists				
32385-58-3	Imetit (hydrobror	nide)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	n				
Revision Date:		01/19/2020						
Additional Info	rmation About	No data available.						
This Product:								
Company Polic	y 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.						
		F F. F						

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