

Revision: 08/09/2018

Section 1. Identific: 1.1 Product Code: 142 Product Name: Per Synonyms: N-[4 acid 1.2 Relevant identified uses of the sul Relevant identified uses: For 1.3 Details of the Supplier of the Safet Company Name: Cay 118 Anr Web site address: www Information: Cay 1.4 Emergency telephone number: Emergency Contact: CHI CHI 2.1 Classification of the Substance or Skin Corrosion/Irritation, Categor Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity (f 2.2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye irritation H335: May cause respiratory irritation H319: Causes Serious eye irritation H310: Causes Serious eye irritation H310: Caus	Supersedes Revision: 08/09/2							
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Product Name: Per Synonyms: N-[4 acid Relevant identified uses of the sult Relevant identified uses: For 3 Details of the Supplier of the Safet Company Name: Cay 118 Anr Web site address: www Information: Cay 4 Emergency telephone number: Emergency Contact: CH CHI Classification of the Substance or Skin Corrosion/Irritation, Categor Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity (f Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity (f Serious Eye Damage/Eye Irritation Systematic GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye irritation H335: May cause respiratory irritation H335: May cause respiratory irritation H335: May cause respiratory irritation H335: May cause respiratory irritation H335: May cause respiratory irritation GHS Precaution Phrases: P261: Avoid breathing {dust/fume/ P264: Wash {hands} thoroughly af P280: Wear {protective gloves/pror	ation of the Substance/Mixture and of the Company/Undertaking							
Relevant identified uses: For .3 Details of the Supplier of the Safet Company Name: Cay .118 Ann Web site address: www Information: Cay .4 Emergency telephone number: Emergency Contact: CH .4 Emergency Contact: CH .6 CH CH .7 Classification of the Substance or Skin Corrosion/Irritation, Categor .8 Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity (reference) .7 Label Elements: GHS Signal Word: .7 GHS Signal Word: GHS Hazard Phrases: .7 H315: Causes skin irritation. H319: Causes serious eye irritation .7 H315: Causes skin irritation. H319: Causes serious eye irritation .7 H315: Causes skin irritation. H319: Causes serious eye irritation .7 H319: Causes serious eye irritation H335: May cause respiratory irritation .7 H419: Causes serious eye irritation H319: Causes serious eye irritation .7 H319: Causes serious eye irritation H319: Causes serious eye irritation .7 H319: Causes serious eye irritation H319: Causes serious eye irritation .7 H319: Causes serious eye irritation H319: Causes serious eye irritation <th>r69 netrexed (sodium salt hydrate) 4-[2-(2-amino-4,7-dihydro-4-oxo-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]-L-gluta d, disodium salt hydrate;</th>	r69 netrexed (sodium salt hydrate) 4-[2-(2-amino-4,7-dihydro-4-oxo-3H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]-L-gluta d, disodium salt hydrate;							
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Company Name: Cay 118 Anr Web site address: www Information: Cay 4 Emergency telephone number: Emergency Contact: CHI CHI CHI CHI CHI CHI CHI CHI	research use only, not for human or veterinary use.							
118 Anr Web site address: www Information: Cay 4 Emergency telephone number: Emergency Contact: CHI CHI CHI 2 1 Classification of the Substance or Skin Corrosion/Irritation, Catego Serious Eye Damage/Eye Irritatio Specific Target Organ Toxicity (2 Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye irritation H335: May cause respiratory irritation H344 (P264: Wash (hands) thoroughly af P280: Wear (protective gloves/pro GHS Response Phrases: P302+352: IF ON SKIN: Wash with P304+340: IF INHALED: Remove P305+351+338: IF IN EYES: Rins to do. Continue rinsing. P312: Call a POISON CENTER or P332+313: If skin irritation occurs,	Details of the Supplier of the Safety Data Sheet:							
Information: Cay Information: Cay A Emergency telephone number: Emergency Contact: CHI CHI CHI CHI CHI CHI CHI CHI	vman Chemical Company 0 E. Ellsworth Rd. n Arbor, MI 48108							
.4 Emergency telephone number: Emergency Contact: CHI CHI CHI CHI CHI CHI CHI CHI CHI CHI	w.caymanchem.com							
Emergency Contact: CHI CHI CHI CHI CHI CHI CHI CHI CHI CHI Chi Classification of the Substance or Skin Corrosion/Irritation, Categor Serious Eye Damage/Eye Irritation Specific Target Organ Toxicity (content CLabel Elements: Content CHS Signal Word: CHS Hazard Phrases: H315: Causes skin irritation. H319: Causes serious eye irritation H335: May cause respiratory irritation H335: May cause respiratory irritation GHS Precaution Phrases: P261: Avoid breathing {dust/fume/ P264: Wash {hands} thoroughly af P280: Wear {protective gloves/pro GHS Response Phrases: P302+352: IF ON SKIN: Wash witt P304+340: IF INHALED: Remove P305+351+338: IF IN EYES: Rinsiston to do. Continue rinsing. P312: Call a POISON CENTER or P332+313: If skin irritation occurs,	/man Chemical Company +1 (734)971-3335							
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P305+351+338: IF IN EYES: Rins to do. Continue rinsing. P312: Call a POISON CENTER or P332+313: If skin irritation occurs,	P302+352: IF ON SKIN: Wash with plenty of soap and water.							
to do. Continue rinsing. P312: Call a POISON CENTER or P332+313: If skin irritation occurs,	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.							
P312: Call a POISON CENTER or P332+313: If skin irritation occurs,	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
P332+313: If skin irritation occurs,	-							
	P312: Call a POISON CENTER or doctor/physician if you feel unwell.							
D227 (212) If our irritation paraiate	P332+313: If skin irritation occurs, get medical advice/attention. P337+313: If eye irritation persists, get medical advice/attention.							
P337+313: If eye irritation persists P362+364: Take off contaminated	-							
GHS Storage and Disposal Phra								
	ge and Section 13 for Disposal information.							

Multi-region format

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2.3		se Human Health s and Symptoms:	Causes serious eye irritation. 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.						
		Sec	tion 3. Composition						
CAS RTEC		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
35710 NA	66-29-1	Pemetrexed (sodiun	n salt hydrate)	100.0 %	639-569-0 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
			Section 4. Fi	rst Aid Meas	sures				
4.1 Description of First A Measures: In Case of Inhalation			Remove to fresh air. If not bre		al respiration or gi	ive oxygen by trained personnel.			
		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.						
	In Case	e of Eye Contact:	Hold eyelids apart and flush e and tested by medical persor		water for at least 1	15 minutes. Have eyes examined			
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	yive anything by mouth to an ing unless directed to do so by			
			Section 5. Fire	Fighting Me	asures				
5.1	Media: Unsuit Media:	able Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be	exposed containers	-	l spray.			
5.2	Flamm Hazard	•	idNo data available.						
	-	Pt: ive Limits: nition Pt:	No data available. No data. LEL: No data. No data.	UEL: No o	data.				
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-conta equivalent), and full protectiv						

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ay		Supersedes Revision: 01/10/2014					
	S	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.					
	Section	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipr	nent:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:	.ab coat					
	Respiratory Equipment	NOSH 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					
		Nash thoroughly after handling.					
	1	No data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline 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 i	mm No data.					
	Hg):	No data					
	Vapor Density (vs. Air = 1):	No data.					

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	Specific Gravity (W	ator - 1).	No data.					
		-	No data.					
	Solubility in Water:				(
	Solubility Notes:		~10 mg/ml in PBS (pH 7.2);	; soluble	(sparingly)	n: etoh; div	ISO; DMF;	
	Octanol/Water Part	ition	No data.					
	Coefficient:							
	Autoignition Pt:		No data.					
	Decomposition Ten	nperature:	No data.					
	Viscosity:		No data.					
9.2	Other Information							
	Percent Volatile:		No data.					
	Molecular Formula	& Weight:	C20H19N5O6 • 2Na [7H2O)] 59	97.5			
		S	Section 10. Stability	and	Reactiv	it∨		
10.1	Reactivity:		ta available.			<i>,</i>		
10.2	Stability:		ble [] Stable [X]					
10.3	Stability Note(s):		e if stored in accordance with	informat	ion listed on	the product	insert	
	Polymerization:		ccur [] Will not occur [>				insert.	
	-			~]				
10.4	Conditions To Avoi		ta available.					
10.5	Incompatibility - Ma	aterials strong	oxidizing agents					
	To Avoid:							
10.6	Hazardous		n dioxide					
	Decomposition or		n monoxide					
	Byproducts:	-	en oxides					
		sodiur	n oxides					
		Se	ection 11. Toxicolog	gical I	nformat	ion		
11.1	Information on	The to	oxicological effects of this pro	duct hav	e not been t	horoughly st	udied.	
	Toxicological Effec	sts:						
CAS	# Hazardous	s Component	ts (Chemical Name)		NTP	IARC	ACGIH	OSHA
3571	66-29-1 Pemetrexe	ed (sodium sal	t hydrate)		n.a.	n.a.	n.a.	n.a.
	+	S	Section 12. Ecologi	cal In	formatio	- <u>-</u>	+	•
12.1	Toxicity:	Avoid	release into the environment					
	-	Runof	f from fire control or dilution v	water ma	y cause pol	ution.		
12.2	Persistence and	No da	ta available.					
	Degradability:							
12.3	Bioaccumulative	No da	ta available.					
12.3	Potential:	NO UA						
10.4		No do	ta availabla					
12.4	Mobility in Soil:		ta available.					
12.5	Results of PBT and	I VPVB No da	ta available.					
	assessment:							
12.6	Other adverse effect	cts: No da	ta available.					



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C M L M L C A L				Supe	ersedes Revision: 01/10/2014	
		Section 13. Dispos	sal Considerat	tions		
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
		Section 14. Tran	sport Informa	tion		
14.1 LAND T	RANSPORT (US	DOT):	·			
DOT Prope	er Shipping Name	: Not dangerous goods.				
DOT Hazar	d Class:					
UN/NA Nur	mber:					
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):				
	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla						
	ANSPORT (ICAO/	-				
Additional Tra	Shipping Name:	Not dangerous goods. Transport in accordance with lo	and state and fodors	l rogulations		
Information:	nsport	Transport in accordance with ic	ical, state, and levera	ii regulations.		
		Section 15 Degu	latan (Informa	tion		
	<i>.</i>	Section 15. Regu	•	lion		
EPA SARA (Su CAS #	-	nents and Reauthorization Act	-	S. 304 RQ	C 242 /TDI)	
357166-29-1		uponents (Chemical Name) dium salt hydrate)	S. 302 (EHS)	5. 304 KQ	S. 313 (TRI)	
	, ,		-	_	INO	
CAS #		iponents (Chemical Name)	Other US EPA or			
357166-29-1 Pemetrexed (sodium salt hydrate)			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	ormation	This SDS was prepared in acco	ordance with 29 CFR	1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	ner Informatio	n		
Revision Date:		08/09/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	y or Disclaimer:	DISCLAIMER: This 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.				