

SAFETY DATA SHEET

.1 Product Con								
		3-AP	Revision: 01/07/201					
			Supersedes Revision: 12/15/201					
	according	to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830	and US OSHA HCS 2015					
	Section 1. Id	entification of the Substance/Mixture and of the	e Company/Undertaking					
Product Na	de:	15419						
	me:	3-AP						
Synonyms:		2-[(3-amino-2-pyridinyl)methylene]-hydrazineca	rbothioamide;					
		3-Aminopyridine-2-Carboxyaldehyde Thiosemic	arbazone; NSC 663249; Triapine™;					
2 Relevant ide	Relevant identified uses of the substance or mixture and uses advised against:							
Relevant i	dentified uses:	For research use only, not for human or vetering	ary use.					
3 Details of th	Details of the Supplier of the Safety Data Sheet:							
Company		Cayman Chemical Company						
		1180 E. Ellsworth Rd.						
		Ann Arbor, MI 48108						
Web site a	ddress:	www.caymanchem.com						
Informatio	n:	Cayman Chemical Company	+1 (734)971-3335					
4 Emergency	telephone numb)er:						
Emergenc	y Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
, Set	· 〈!〉							
		_						
GHS Signa		Danger						
GHS Haza	ard Phrases:							
H201. Toy	ic il swallowed. Ises skin irritation							
H301: Tox	ises serious eye i							
H315: Cau								
H315: Cau H319: Cau	cause respirator							
H315: Cau H319: Cau H335: May	cause respirator	ry irritation.						
H315: Cau H319: Cau H335: May GHS Prec	aution Phrases:	ry irritation.						
H315: Cau H319: Cau H335: May GHS Prec P261: Avo	aution Phrases: id breathing {dust	ry irritation. t/fume/gas/mist/vapours/spray}.						
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was	aution Phrases: id breathing {dust sh {hands} thorou	ry irritation.	n}.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wea	aution Phrases: id breathing {dust sh {hands} thorou	ry irritation. t/fume/gas/mist/vapours/spray}. Ighly after handling.	n}.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Res	aution Phrases: id breathing {dusi sh {hands} thorou ar {protective glov conse Phrases:	ry irritation. t/fume/gas/mist/vapours/spray}. Ighly after handling.						
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWE	ry irritation. t/fume/gas/mist/vapours/spray}. Ighly after handling. /es/protective clothing/eye protection/face protectio						
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310 P302+352	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWE : IF ON SKIN: Wa	ry irritation. t/fume/gas/mist/vapours/spray}. ighly after handling. /es/protective clothing/eye protection/face protectio D: Immediately call a POISON CENTER or doctor/f	physician.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310 P302+352 P304+340 P305+351	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWE : IF ON SKIN: Wa : IF INHALED: Re +338: IF IN EYES	ry irritation. t/fume/gas/mist/vapours/spray}. ghly after handling. /es/protective clothing/eye protection/face protectio D: Immediately call a POISON CENTER or doctor/p ash with plenty of soap and water.	physician. ion comfortable for breathing.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310 P302+352 P304+340 P305+351 to do. Con	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWEI : IF ON SKIN: Wa : IF INHALED: Re +338: IF IN EYES tinue rinsing.	ry irritation. t/fume/gas/mist/vapours/spray}. Ighly after handling. ves/protective clothing/eye protection/face protectio D: Immediately call a POISON CENTER or doctor/f ash with plenty of soap and water. emove victim to fresh air and keep at rest in a positi S: Rinse cautiously with water for several minutes. I	physician. ion comfortable for breathing.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310 P302+352 P304+340 P305+351 to do. Con P312: Call	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWE : IF ON SKIN: Wa : IF INHALED: Re +338: IF IN EYES tinue rinsing. a POISON CEN	ry irritation. t/fume/gas/mist/vapours/spray}. ighly after handling. ves/protective clothing/eye protection/face protectio D: Immediately call a POISON CENTER or doctor/p ash with plenty of soap and water. emove victim to fresh air and keep at rest in a positi	physician. ion comfortable for breathing.					
H315: Cau H319: Cau H335: May GHS Prec P261: Avo P264: Was P280: Wes GHS Resp P301+310 P302+352 P304+340 P305+351 to do. Con P312: Call P330: Rins	aution Phrases: id breathing {dust sh {hands} thorou ar {protective glov conse Phrases: : IF SWALLOWE : IF ON SKIN: Wa : IF INHALED: Re +338: IF IN EYES tinue rinsing. a POISON CEN se mouth.	ry irritation. t/fume/gas/mist/vapours/spray}. Ighly after handling. ves/protective clothing/eye protection/face protectio D: Immediately call a POISON CENTER or doctor/f ash with plenty of soap and water. emove victim to fresh air and keep at rest in a positi S: Rinse cautiously with water for several minutes. I	physician. ion comfortable for breathing.					

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cay					:	Supersedes Revision: 12/15/2014			
		•	n persists, get medical advice/a aminated clothing and wash it k						
	GHS Storage and Disposal Phrases:								
	Please refer to Section 7 for Storage and Section 13 for Disposal information.								
2.3	Advers	e Human Health	Causes serious eye irritation.						
	Effects	and Symptoms:	Causes skin irritation.						
			Material may be irritating to the		nes and upper res	spiratory tract.			
			May be harmful by inhalation or skin absorption.						
May cause respiratory irritation.									
			Toxic if swallowed.	the toxicelegical pr	oportion have not	been therewably investigated			
			To the best of our knowledge	, the toxicological pro	openies nave no	t been thoroughly investigated.			
		Sec	tion 3. Composition	/Information of	on Ingredie	nts			
CAS RTE		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
	143621-35-6 2-[(3-amino-2-pyridii MV1098750 oamide		nyl)methylene]-hydrazinecarbothi	lene]-hydrazinecarbothi 100.0 % 802-84 NA		Acute Tox.(O) 3: H301 Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
		•	Section 4. Fi	rst Aid Measu	ires	•			
4.1	Descrip	Description of First Aid							
	Measur								
		of Inhalation:	respiration or giv	ve oxvgen by trained personnel.					
			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				minutes. Remove contaminated			
In Case of Eye Contact:			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	of Ingestion:							
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
	medical personnel.								
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.			
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita	able Extinguishing	A solid water stream may be inefficient.						
	Media:								
5.2	Flamma	able Properties ar	dNo data available.						
	Hazard	s:							
			No data available.						
	Flash P	't:	No data.						
	Explosi	ive Limits:	LEL: No data. UEL: No data.						
	Autoigr	nition Pt:	No data.						
5.3	Fire Fig	hting Instruction	s: As in any fire, wear self-conta	ained breathing appa	aratus pressure-d	emand (NIOSH approved or			
equivalent), and full protective gear to prevent contact with skin and eyes.									
1									

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6.1

6.2

6.3

7.1

7.2

8.1

8.2

9.1

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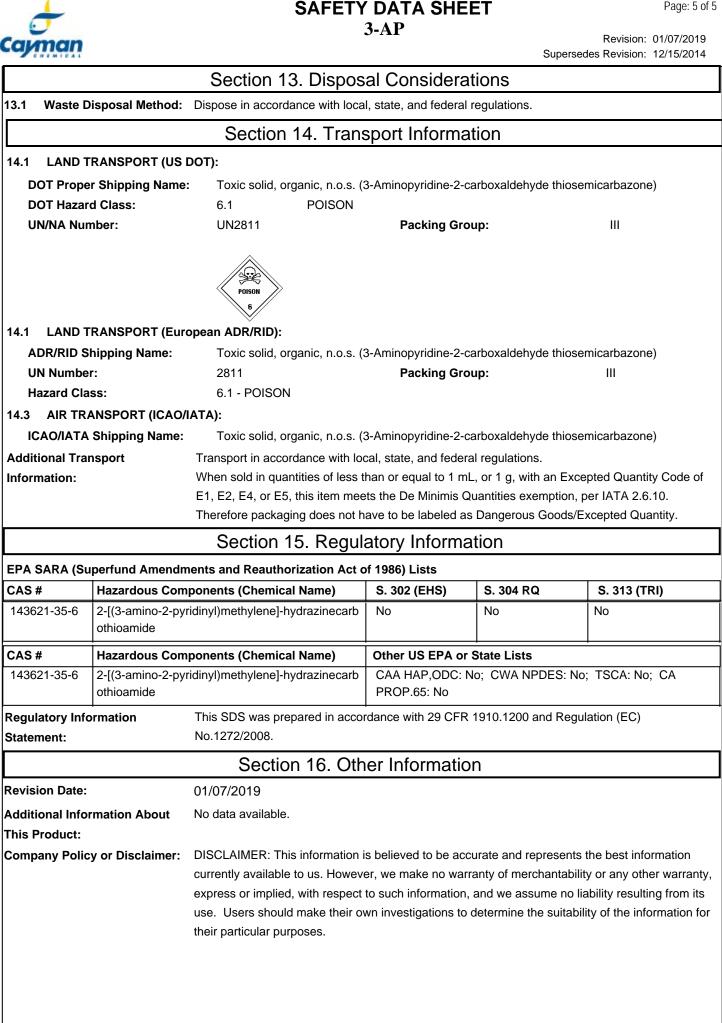
Revision: 01/07/2019 Supersedes Revision: 12/15/2014 Section 6. Accidental Release Measures Avoid raising and breathing dust, and provide adequate ventilation. **Protective Precautions,** Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 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 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Precautions To Be Taken Keep container tightly closed. Store in accordance with information listed on the product insert. in Storing: Section 8. Exposure Controls/Personal Protection **Exposure Parameters: 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 equipment: Eye Protection: Safety glasses Compatible chemical-resistant gloves **Protective 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: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling. No data available. Section 9. Physical and Chemical Properties Information on Basic Physical 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. No data available. Flammability (solid, gas): **Explosive Limits:** LEL: No data. UEL: No data. Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1): No data.

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	Specific Gravity (Water = 1):		1): No d	No data.						
	Solubility in Water:		No d	No data.						
	Solubility Notes:			~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~20 mg/ml in DMSO; ~25 mg/ml in						
				DMF;						
	Octanol/Water Partition			No data.						
	Coefficie	nt:								
	Autoigni	tion Pt:	No d	ata.						
	Decomp	osition Temperat	ure: No d	No data.						
	Viscosity: No data.									
9.2 Other Information										
	Percent	Volatile:	No data.							
	Molecula	r Formula & Weig	ght: C7H	C7H9N5S 195.2						
			Secti	on 10.	Stability and	Reacti	vity			
10.1	Reactivity: No d		No data ava	ta available.						
10.2	Stability:		Unstable [-	ole [X]					
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product inst					insert.					
	Polymeri	zation:	Will occur [Will occur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	Avoid: No data available.							
10.5	-	tibility - Materials								
	To Avoid	1:	strong oxidizing agents							
10.6 Hazardous carbon dioxide										
	=	osition or	carbon monoxide							
	Byprodu	cts:	nitrogen oxides sulfur oxides							
			sulfur oxides	; 						
			Sectio	<u>n 11. </u>	Foxicological	Inform	ation			
11.1	.1 Information on The toxicological effects of this product have not been thoroughly studied.									
	Toxicolo	gical Effects:								
CAS # Hazardous Compone			ponents (Ch	emical Na	ame)	NTP	IARC	ACGIH	OSHA	
1436	143621-35-6 2-[(3-amino-2-pyrid e		idinyl)methyle	ene]-hydra	azinecarbothioamid	n.a.	n.a.	n.a.	n.a.	
			Secti	ion 12.	Ecological Ir	nformat	tion			
12.1			Avoid releas	d release into the environment.						
			Runoff from fire control or dilution water may cause pollution.							
12.2	Persister	nce and	No data available.							
	Degradability:									
12.3				ilable.						
Potential:										
12.4	Mobility in Soil: No da		No data ava	data available.						
12.5	2.5 Results of PBT and vPvB assessment:		No data available.							
12.6	2.6 Other adverse effects:		No data ava	ilable.						

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