

	Section 1 Id	entification of the Substance/Mixture and of th	e Company/I Indertaking			
.1			le company/ondertaking			
	Product Code:	21820				
1.2	Product Name:	bis-ANS (potassium salt)				
	Synonyms:	4,4'-bis(phenylamino)-[1,1'-binaphthalene]-5,5'	·			
		bis(1,8-anilinonaphthalenesulfonate)4; 4'-Diani	lino-1,1'-binaphthyl-5,5'-disulfonic Acid;			
	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses:	For research use only, not for human or vetering	hary use.			
	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 numb	er:				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identification	ation			
2.1	Classification of the Substa	nce or Mixture				
	Acute Toxicity: Inhalation					
	Acute Toxicity: Oral, Cate					
	Acute Toxicity: Skin, Cate					
	-					
	Skin Corrosion/Irritation, Category 2					
	Serious Eye Damage/Eye Irritation, Category 2					
	0 K T 10 T					
		icity (single exposure), Category 3				
2.2	Specific Target Organ Tox Label Elements:	icity (single exposure), Category 3				
2.2		icity (single exposure), Category 3				
2.2		icity (single exposure), Category 3				
2.2		icity (single exposure), Category 3				
2.2	Label Elements:					
2.2	Label Elements: GHS Signal Word:	icity (single exposure), Category 3 Warning				
2.2	Label Elements:	Warning				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	Warning				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	<b>Warning</b> th skin.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wi H315: Causes skin irritation	Warning				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i	Warning				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wi H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled.	Warning th skin. rritation.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator	Warning th skin. rritation.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wi H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases:	Warning th skin. rritation. y irritation.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}.				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thorous	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}. ghly after handling.	on}.			
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug P280: Wear {protective glov	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}.	on}.			
2.2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thorous P280: Wear {protective glow GHS Response Phrases:	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protectio				
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact with H315: Causes skin irritation H319: Causes serious eye in H32: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thorough P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWER	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protection D: P312: Call a POISON CENTER or doctor/physi				
2.2	Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wir H315: Causes skin irritation H319: Causes serious eye i H332: Harmful if inhaled. H335: May cause respirator GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWER P302+352: IF ON SKIN: Wa	Warning th skin. rritation. y irritation. /fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protectio	cian if you feel unwell.			



Revision: 04/09/2017

	to do. Continue rinsing.				
P321: Specific treatment {see on this label}.					
	P330: Rinse mouth.				
	P332+313: If skin irritation occurs, get medical advice/attention.				
	P337+313: If eye irritation persists, get medical advice/attention.				
	P362+364: Take off cont	aminated clothing and wash it before reuse.			
	GHS Storage and Dispo	osal Phrases:			
	Please refer to section 7 for storage and section 13 for disposal information.				
2.3	Adverse Human Health	Causes serious eye irritation.			
	Effects and Symptoms:	Causes skin irritation.			
		Harmful if inhaled, swallowed, or in contact with skin.			
		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.			

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
65664-81-5 NA	[1,1'-Binaphthalene]-5,5'-disulfonic acid, 4,4'-bis(phenylamino)-, potassium salt (1:2)	100.0 %	NA NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Eye Damage 2: H319 Acute Tox.(I) 4: H332 STOT (SE) 3: H335

#### Section 4. First Aid Measures

# 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.	



Multi-region format

Media:       Use water spray to cool fire-exposed containers.         Unsultable Extinguishing A solid water stream may be inefficient.         Media:       Fiammable Properties andNo data available.         Hazards:       No data available.         Flammable Properties andNo data available.       Hazards:         No data.       UEL: No data.         Explosive Limits:       LEL: No data.         Jerrore       equivalent), and full protective gear to prevent contact with skin and eyes.         Section 6. Accidental Release Measures       Section 6. Accidental Release Measures         1       Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and A conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator temorgency Procedures: and appropriate personal protociton (tubber boots, safety goggles, and heavy rubber gloves).         2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Section 7. Handling and Storage         1       Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.         in Handling:       Avoid prolonged or repeated exposure.         2       Precoutions To Be Taken Keep container tightly closed.         in storing:       Store in accordance with information listed on the product insert.         2							
Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.         Media:       Flammable Properties andNo data available.         Hazards:       No data available.         Flammable Properties andNo data available.       Hazards:         No data.       Explosive Limits:       LEL: No data.         Autoignition PI:       No data.       UEL: No data.         Aire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivaler), and full protective gear to prevent contact with skin and eyes.         Section 6. Accidental Release Measures         Protective Precautions,       Avoid traising and breathing dust, and provide adequate vonitlation.         Protective Procedures:       and appropriate personal protection (rubber boots, safety gogles, and heavy rubber gloves).         2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Preceautions:       .       Section 7. Handling and Storage         1       Proceautions:       .         2       Explosure Drawer Avoid prolonged or repeate dexpoure.       Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.         Up:       Section 7. Handling and Storage       .         1       Precautions To Be Ta			Section 5. Fire Fighting Measures				
Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.         Media:         2       Flammable Properties and/No data available.         Hazards:       No data available.         Flammable Properties and/No data available.       Flash Pt:         No data       Velocity Properties and/No data         Autoignition Pt:       No data.         Jespice Limits:       LEL: No data.         Velocity Properties and/No data available.       File Fighting Instructions: 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       Section 7. Accidental Release Measures         1       Protective Procedures: and appropriate personal protection (rubber boots, safety oggiles, and heavy rubber gloves).         2       Environmental       As conditions warrant, wear a NIOSH approved boots, safety oggiles, and heavy rubber gloves).         2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Preceautions:       and appropriate personal protection (rubber boots, safety oggiles, and heavy rubber gloves).         10       Protective Relaxed Material For       Contain spill and collect, as appropriate.         Containment and Cleaning dust/furne/gas/mits/vapo	5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.				
Media:       Plammable Properties andNo data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         .atudightion Pt:       No data available.         .atudightion Pt:       No data.         .atudightion Pt:       No data.         .atudightion Pt:       No data available.         .atudightion Pt:       No data.         .atudightion Pt:       No data.         .atudightion Pt:       No data available.         .atudightion Pt:       No data.         .atudightion Pt:       No data.         .atudightion Pt:       No data available.         .atudightion Pt:       Notid taising and breathing dust, and provide adequate ventilation.         .protective Precautions:       As conditions warrant, wear A NOSH approved betrotherating the prospirate.         .atudightions:       Take steps to avoid release into the environment, if safe to do so.         .precautions:       Avoid			Use water spray to cool fire-exposed containers.				
<ul> <li>2 Flammable Properties and No data available. Hazards: No data available.</li> <li>Flash Pt: No data.</li> <li>Explosive Limits: LEL: No data.</li> <li>2 Fire Fighting Instructions: 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.</li> <li>2 Section 6. Accidental Release Measures</li> <li>1 Protective Procedures: and appropriate personal protection (tubber boots, safety goggles, and heavy rubber gloves).</li> <li>2 Environmental Take steps to avoid release into the environment, if safe to do so. Proceutions: A wold 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).</li> <li>2 Environmental Take steps to avoid release into the environment, if safe to do so. Procautions: 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:</li> <li>2 Precautions To Be Taken Avoid prolonged or repeated exposure.</li> <li>3 Precautions To Be Taken Keep container tightly closed. in storing: Store in accordance with information listed on the product insert.</li> <li>3 Exposure Parameters: 4 Exposure Parameters: 5 Exposure Controls: 5 Exposure Controls: 7 Protective Clothing: 8 De process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.): 8 Levels below recommended exposure limits.</li> <li>3 Personal protection equipment: 8 Eye Protection: 5 Safety glasses 9 Protective Clothing: 8 Lab coat 7 Respiratory Equipment 8 NIOSH approved respirator, as conditions warrant. 8 (Specify Type): 8 Work/Hygienic/Maintenan 8 NIOSH approved respir</li></ul>		Unsuitable Extinguishing	A solid water stream may be inefficient.				
Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Joint Pt:       No data.         Strip Fighting Instructions: 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         Notective 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 generations:         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 generations:         2       Environmental         Take steps to avoid release into the environment, if safe to do so.         Precautions:       Section 7. Handling and Storage         1       Precautions To Be Taken         Avoid prolonged or repeated exposure.       Up:         2       Precautions To Be Taken         Avoid prolonged or repeated exposure limits.       Exposure Controls:         1       Resposure Controls:         2       Precautions To Be Taken         Neold prolonged or repeated exposure limits.		Media:					
No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         UEL: No data.       UEL: No data.         Autoignition Pt:       No data.         UEL: No data.       UEL: No data.         Autoignition Pt:       No data.         UEL: No data.       UEL: No data.         Autoignition Pt:       No data.         UEL: No data.       Section 6. Accidental Release Measures         Contention:       Avail raising and breathing dust, and provide adequate ventilation.         Protective Precautions.       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).         2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       -       Section 7. Handling and Storage         1       Precautions To Be Taken       Avoid breathing dust/fume/gas/mist/vapours/spray.         In Handling:       Avoid breathing dust/fume/gas/mist/vapours/spray.       In thandling:         1       Precautions To Be Taken       Keep container tighty dioad.       In storing:         2       Exposure Controls:       Store in accordance with information listed on the produc	5.2	Flammable Properties and No data available.					
Flash Pt:       No data.         Explosive Limits:       LEL: No data.         UEL: No data.       UEL: No data.         Autoignition Pt:       No data.         Iter Fighting Instructions: 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         Iter Fighting Instructions:       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).         Iterations:       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Section 7. Handling and Storage         Iterations To Be Taken       Avoid breathing dust/fume/gas/mist/vapours/spray.         In Handling:       Avoid breathing dust/fume/gas/mist/vapours/spray.         In Handling:       Avoid breathing dust/fume/gas/mist/vapours/spray.         Iterations To Be Taken       Keep container tightly closed.         In Storing:       Store in accordance with information listed on the product insert.         Section 8. Exposure Controls/Personal Protection         Iteration etc.j:       levels below recommended exposure limits.		Hazards:					
Explosive Limits:       LEL: No data.       UEL: No data.         Autoignition Pt:       No data.         3       Fire Fighting Instructions: 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         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).         2       Environmental       Take steps to avoid release into the environment, if safe to do so. Precautions:         3       Methods and Material For Containspill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:         2       Precautions To Be Taken Avoid prolonged or repeated exposure.         2       Precautions To Be Taken in Storing:       Store in accordance with information listed on the product insert.         3       Exposure Parameters:       2         2       Exposure Parameters:         2       Exposure Controls         2       Exposure Parameters:         3       Store in accordance with information listed on the product insert. <t< td=""><td></td><td></td><td>No data available.</td></t<>			No data available.				
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1       Protective Precautions, 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).         2.       Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:         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:         2.       Exection 7. Handling and Storage         3.       Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.         2.       Precautions To Be Taken Section 8. Exposure Controls/Personal Protection         1.       Exposure Parameters: 2.         2.       Exposure Controls: 2.1         2.1       Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.): levels below recommended exposure limits.         2.2.       Personal protection Safety glasses Protective Gloves: Other Protective Clothing:Lab coat Respiratory Equipment (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 showe Wash thoroughly after handling.			equivalent), and full protective gear to prevent contact with skin and eyes.				
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).         2       Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:         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         In Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.         Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Store in accordance with information listed on the product insert.         Section 8. Exposure Controls/Personal Protection         1         Section 8. Exposure Controls (Personal Protection         1         Section 8. Exposure Controls     <			Section 6. Accidental Release Measures				
Emergency Procedures:       and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         2       Environmental Precautions:       Take steps to avoid release into the environment, if safe to do so. Precautions:         3.3       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         1         Precautions To Be Taken Avoid breathing dust/fume/gas/mistvapours/spray. in Handling: Avoid prolonged or repeated exposure.         2         Precautions To Be Taken Avoid breathing dust/fume/gas/mistvapours/spray. in Handling: Avoid prolonged or repeated exposure.         2         Precautions To Be Taken Keep container tighty closed. in Storing: Store in accordance with information listed on the product insert.         Section 8. Exposure Controls/Personal Protection         1         Aveid protess enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.):         Levels below recommended exposure limits.         2.2         Protection equipment: Eye Protection equipment: Eye Protection equipment: Eye Protection equipment: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment       NIOSH approved respirator,	6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
2       Environmental Precautions:       Take steps to avoid release into the environment, if safe to do so. Precautions:         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:         3       Section 7. Handling and Storage         1       Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.         2       Precautions To Be Taken Keep container tightly closed. in Storing: Store in accordance with information listed on the product insert.         3       Exposure Parameters: Exposure Controls: 2.1       Exposure Controls/Personal Protection         3.1       Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.): levels below recommended exposure limits.         2.2       Personal protection equipment: Eye Protection: Safety glasses Protective Gloives: 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 showe Wash thoroughly after handling.		Protective Equipment and					
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in Storing:       Store in accordance with information listed on the product insert.         Section 8. Exposure Controls/Personal Protection         1       Exposure Parameters:         2       Exposure Controls:         2.1       Engineering Controls         Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.):       levels below recommended exposure limits.         2.2       Personal protection equipment:         Eye Protection:       Safety glasses         Protective Gloves:       Compatible chemical-resistant gloves         Other Protective Clothing:Lab coat       NIOSH approved respirator, as conditions warrant.         (Specify Type):       Vork/Hygienic/Maintenan         Do not take internally.       ce Practices:         Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed Wash thoroughly after handling.		in Handling:	Avoid prolonged or repeated exposure.				
Section 8. Exposure Controls/Personal Protection         1       Exposure Parameters:         .2       Exposure Controls:         .2.1       Engineering Controls         .2.1       Engineering Controls         .2.1       Engineering Controls         .2.2       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.         ce Practices:       Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed Wash thoroughly after handling.	7.2	Precautions To Be Taken					
1       Exposure Parameters:         2       Exposure Controls:         2.1       Engineering Controls       Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.):         2.1       Engineering Controls       Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.):         2.2       Personal protection equipment:         Eye Protection:       Safety glasses         Protective Gloves:       Compatible chemical-resistant gloves         Other Protective Clothing:Lab coat       Respiratory Equipment         Respiratory Equipment       NIOSH approved respirator, as conditions warrant.         (Specify Type):       Work/Hygienic/Maintenan         Work/Hygienic/Maintenan       Do not take internally.         ce Practices:       Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling.		in Storing:	Store in accordance with information listed on the product insert.				
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(Ventilation etc.):       levels below recommended exposure limits.         2.2       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.         ce Practices:       Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed Wash thoroughly after handling.	8.2	Exposure Controls:					
.2.2       Personal protection equipment:         Eye Protection:       Safety glasses         Protective Gloves:       Compatible chemical-resistant gloves         Other Protective Clothing:Lab coat       Respiratory Equipment         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 showe Wash thoroughly after handling.	8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
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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:       Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed Wash thoroughly after handling.	8.2.2	Personal protection equipment:					
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 showed Wash thoroughly after handling.		Eye Protection:	Safety glasses				
Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Do not take internally.Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed Wash thoroughly after handling.		Protective Gloves:	Compatible chemical-resistant gloves				
(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 showed Wash thoroughly after handling.		Other Protective Clothing	:Lab coat				
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<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling.		(Specify Type):					
Wash thoroughly after handling.		Work/Hygienic/Maintenan					
		ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe				
No data available.							
			No data available.				



Multi-region format

9.1		ection 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.			
	Flammability (solid, gas):	No data available.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Vapor Pressure (vs. Air or	mm No data.			
	Hg):				
	Vapor Density (vs. Air = 1):				
	Specific Gravity (Water = 1				
	Solubility in Water:	No data.			
	Solubility Notes:	~5 mg/ml in PBS (pH 7.2); ~30 mg/ml in DMSO & DMF;			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperatu	ire: No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Weig	ht: C32H22N2O6S2 • 2K 672.9			
		Section 10. Stability and Reactivity			
10.1	Reactivity:	No data available.			
10.2	Stability:	Unstable [ ] Stable [ X ]			
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.			
	Polymerization:	Will occur [ ] Will not occur [ X ]			
10.4	Conditions To Avoid:	No data available.			
	Incompatibility - Materials	strong oxidizing agents			
10.5	To Avoid:				
10.5					
	Hazardous	carbon dioxide			
		carbon dioxide carbon monoxide			
	Decomposition or	carbon monoxide			
	Decomposition or Byproducts:				
10.5 10.6	Decomposition or Byproducts:	carbon monoxide nitrogen oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			
	Decomposition or Byproducts:	carbon monoxide nitrogen oxides potassium oxides			



Revision: 04/09/2017

Information on         The toxicological effects of this product have not been thoroughly studied.							
		ogical Effects:					
65664-81-5 [1,1'-Binaphthale			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
		1	ne]-5,5'-disulfonic acid, nino)-, potassium salt (1:2)	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecol	ogical Informa	ation		
12.1	Toxicity	-	Avoid release into the environment				
	_		Runoff from fire control or dilut	ion water may cause	pollution.		
12.2		ence and	No data available.				
12.3	Degrada	imulative	No data available.				
2.3	Potentia		No dala avallable.				
12.4	Mobility		No data available.				
2.5	-		No data available.				
	assessr	ment:					
12.6	Other a	dverse effects:	No data available.				
			Section 13. Dispo	sal Considera	ations		
13.1	Waste D	Disposal Method:	Dispose in accordance with loo	cal, state, and federa	l regulations.		
			Section 14. Trar	nsport Informa	ation		
14.1	LAND 1	RANSPORT (US I	DOT):				
D	OT Prope	er Shipping Name:	Not dangerous goods.				
D	OT Hazar	d Class:					
U	N/NA Nur						
14.1		RANSPORT (Euro					
		hipping Name:	Not dangerous goods.				
-	N Numbe azard Cla						
 14.3		ANSPORT (ICAO/I	ΔΤΔ).				
		Shipping Name:	Not dangerous goods.				
	ional Tra		Transport in accordance with	local, state, and fede	ral regulations.		
	nation:	·			-		
			Section 15. Regu	ulatory Inform	ation		
EPA	SARA (Sı	perfund Amendm	ents and Reauthorization Act	,			
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)
6566	64-81-5	1	ne]-5,5'-disulfonic acid, nino)-, potassium salt (1:2)	No	No	No	
CAS	¥	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists		
	64-81-5	[1,1'-Binaphthale	ne]-5,5'-disulfonic acid,	CAA HAP,ODC:	No; CWA NPDE	S: No; TSCA	: No; CA

Multi-region format



Page: 6 of 6

Regulatory Information         This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)           Statement:         No.1272/2008.           Section 16. Other Information				
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.			