

Safety Data Sheet 2H25129 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/12/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Furan-2,4-dione		
CAS No	: 4971-56-6		
Product code	: 2H25-1-29		
Formula	: C4H4O3		
Synonyms	: beta-Tetronic acid		
Other means of identification	: MFCD00010086		
1.2. Relevant identified uses of the	substance or mixture and uses	advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substanc Scientific research and d	es	
		svelopment	
1.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Com	pany - Account 10069)	
SECTION 2: Horord(a) identificat	tion		
SECTION 2: Hazard(s) identificat 2.1. Classification of the substance			
Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irrita H319 - Causes serious e H335 - May cause respir	ye irritation	
Precautionary statements (GHS-US)	P280 - Wear protective of P302+P352 - If on skin: P304+P340 - If inhaled: P305+P351+P338 - If in lenses, if present and ea P312 - Call a POISON Of P321 - Specific treatmen P332+P313 - If skin irrita P337+P313 - If eye irrita P362+P364 - Take off co P403+P233 - Store in a P405 - Store locked up		preathing
12/09/2016			Dogo 1
12/08/2016	EN (English US)	SDS ID: 2H25129	Page 1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

a dational information available 4. Unknown acute toxicity (GHS US) 5. Orapoisation/information on ingredients 5. Substance 5. Mono-constituent 5. Mono-constituen	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations				
A.       Unknown scute toxicity (GHS US)         ot applicable         ECTION 3: Composition/information on ingredients         3.       Substance         ubstance type       :         Name       Product identifier       %         Classification (GHS-US)         Strong 3: A done       (CAS boil 4071-66-8       e= 100       She fitte 2, H318         Strong 3: A done       (CAS boil 4071-66-8       e= 100       She fitte 2, H318         Strong 3: A done       (CAS boil 4071-66-8       e= 100       She fitte 2, H318         Utext of H-phrases: see section 16       .       .       None       Fitte 3: Identifier         2.       Misture       ot applicable       .       Identifier       %       Classification (GHS-US)         1.       Description of first aid measures       .       In case of nacident or if you fiel unnell, seek medical advice iteration, give artificial respective advice advice iteration, advice atteration, advice atterati	2.3. Other hazards				
Set applicable  ECTION 3.: Composition/information on Ingredients  ECTION 3.: Composition/information on Ingredients  Itera 4.: A substance  Uters of A phoneses: see section 16  Markune  Iter of A phoneses: see section 16  Bescription of first ald measures  Iter of A phoneses: see section 16  Bescription of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Markune  Description of first ald measures  Iter of A phoneses: see section 2  Markune  Description of first ald measures  Iter of A phoneses: see section 16  Description of first ald measures  Iter of A phoneses: see section 2  Markune  Markune  Description of first ald measures  Iter of A phoneses: see section 2  Markune  Description of first ald measures  Iter of A phoneses: see section 2  Markune  Description of first ald measures  Iter of A phoneses: see section 10  Description of A phoneses: see section 10  Description of A phoneses: see section 10  Description of A phones	No additional information available				
ECTION 3: Composition/information on ingredients         1. Substance         Visitance type       : Mono-consituent         Name       Product identifier       %       Classification (GHS-US) Ser Int 2, 1916 Ser Int 2, 1916 Ser Int 2, 1916 Ser Int 2, 1916 Ser Int 2, 1916         2. Misture       10-84 v0 4071-66-6       4= 100       Ser Int 2, 1916 Ser Int 2, 1916         2. Misture       0       Ser Int 2, 1916 Ser Int 2, 1916       Ser Int 2, 1916 Ser Int 2, 1916         2. Misture       0       Ser Int 2, 1916 Ser Int 2, 1916       Ser Int 2, 1916 Ser Int 2, 1916         1. Description of first alid measures       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Who the affected personnel away from the contaminated area: irst-aid measures after inhelation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Celt medical advice/attention.       : Int case of accident or if you feel unwell, seek medical advice/attention.         1:st-aid measures after injection       : Wosh with penty of scop and water. Celt medical advice/attention.       : Int case of accident or if you feel unwell, seek medical advice/attention.         2. Most important symptoma and effects, both acute and delayed mptomainiquifes       : Do NOT induce wonkning. New give any working by motuli to in unconscious person. Rinse motuli water or it lease in advice/attention.         3. Indication of any immediate medical attention and special treatment needed	2.4. Unknown acute toxicity (GHS US)				
Substance type         : Mono-constituent           Name         Product identifier         %         Classification (OHS-US) Summ: 2, 1315 (Minut: 2, 1315 (Minut: 2, 1315) (Minut: 2, 1315) (Mi	Not applicable				
ubstance type       : Mone-constituent         Name       Product identifier       %       Classification (GHS-US)         Uname 2-4-dine       (CAS No) 4971-56-6       %       Classification (GHS-US)         Ull text of H-phrases: see section 18       Use of H-phrases: see section 18       Use of H-phrases: see section 18         2.       Mature       Item 2-4-dine       Use of H-phrases: see section 18         2.       Mature       Item 2-4-dine       Use of H-phrases: see section 18         2.       Mature       Item 2-4-dine       Item 2-4-dine         2.       Mature       Item 2-4-dine       Item 2-4-dine         3.       Description of first aid measures general       : Iterace of ascident or if you feel unwell, seek madical advice/attention.         ifst-aid measures after inhalation       : Remove person to feah air and keep contionfable for breating. If not breathing, give artificial resident desay to do. Continue rinsing. Get medical advice/attention.         ifst-aid measures after skin contact       : Wash with penhy of scap and water. Get medical advice/attention.         ifst-aid measures after skin contact       : Wash with water. Get medical advice/attention.         ifst-aid measures after skin contact       : Wash with water Get medical advice/attention.         ifst-aid measures after skin contact       : Wash with advice of theresting. Ifsto in the aubell with water Get medical adv	<b>SECTION 3: Composition/information</b>	on ingr	edients		
Yam         Product identifier         %         Classification (GHS-US)           Fund -2, 4-doing With models         (CAB No) 4971-56-6         <= 100	3.1. Substance				
Fight 2-4 done with the section 16       It as the part of the section 16       It as the part of the section 16         2. Mixture       Mixture       It as a discident of if you feel unwell, seek medical advice immediately (show the label where possible). More the affected personnel away from the contaminated area.         1. Description of first aid measures       It nease of accident of if you feel unwell, seek medical advice/attention.         Irst-aid measures general       It nease of accident of if you feel unwell, seek medical advice/attention.         Irst-aid measures after skin contact       It mediately first with weter for a the medical advice/attention.         Irst-aid measures after skin contact       It was with periny of scap and water. Get medical advice/attention.         Irst-aid measures after skin contact       It was with periny of scap and water. Get medical advice/attention.         Irst-aid measures after skin contact       It mediately first with water for at teas 15 minutes. Remove contact lenses, if present and easy to do. Continue firsing. Get medical advice/attention.         Irst-aid measures after ingestion       Do NT induce ware yees shoroughly with water for at teas 15 minutes. Remove contact lenses, if present and easy to do. Continue firsing. Get medical advice/attention.         2. Most important symptoms and effects, both acute and delayed       myntoms/injuries         3. Indication of any immediate medical attention and special treatment needed       teating appropriate for surrounding fire.         2. Special hazards arising from the substan	Substance type	Mono-c	onstituent		
Utility of the section of the section of the section who is "Exposing of the section se	Name	1	Product identifier	%	Classification (GHS-US)
2.       Mixture         of applicable         ECTION 4: First aid measures         1.       Description of first aid measures         rist-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         rist-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.         rist-aid measures after sin contact       : Wash with pienty of soap and water. Get medical advice/attention.         rist-aid measures after indestion       : Do NOT induce vomiling, Never give artything by mouth to an unconscious person. Rinse mouth our with were: Get medical advice/attention.         2.       Most important symptoms and effects, both acute and delayed         ymptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         3.       Indication of any immediate medical attention and special treatment needed         reat symptomatically.       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fre.         3.       Special hazards arising from the substance or mixture         reated to infertighting       : D not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal prote	Furan-2,4-dione (Main constituent)	(	CAS No) 4971-56-6	<= 100	Eye Irrit. 2A, H319
bit applicable         ECTION 4: First aid measures         inst-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Nove the affected personnek medical advice/attention.         inst-aid measures after inhalation       : Remove person to frish air and keep comfortable for breathing. If no breathing, give artificial respiration. Get medical advice/attention.         inst-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.         2. Most important symptoms and effects, both acute and delayed         ymptoms/injuries       : The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.         3. Indication of any immediate medical attention and special treatment needed         treat symptomatically.         ECTION 5: Firefighting measures         2. Special hazards arising from the substance or mixture         tre the section 1:       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure control/spiersonal protection".         3. Advice for fifelighters       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure control/spiersonal protection".         2. Special hazards arising from the substance or mixture       : Do not attempt to take action without suitabl	Full text of H-phrases: see section 16				
Image: Second					
1. Description of first aid measures         rist-aid measures general       : In case of accident or if you feel unwell, seek medical advice intendiately (show the label where possible). Mow the affected personnel away from the contaminated area.         rist-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Cet medical advice/attention.         rist-aid measures after eye contact       : Ummediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.         rist-aid measures after ingestion       : Do NOT induce vonting, Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         2. Most important symptoms and effects, both acute and delayed					
initial measures general       : In case of accident or if you feel unwell, seek medical advice/immediately (show the label where possible). Move the affected personnel away from the contaminated area.         irst-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.         irst-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove persone ad easy to do. Continue finsing. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         irst-aid measures       : Enter and delayed         irptoms/injuries       : The meat ingoptant known symptoms and effects are described in the labelling (					
<ul> <li>where possible). Move the affected personnel away from the contaminated area.</li> <li>irst-aid measures after inhelation</li> <li>Remove person to fesh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.</li> <li>irst-aid measures after skin contact</li> <li>Wash with plenty of scap and water. Get medical advice/attention.</li> <li>irst-aid measures after skin contact</li> <li>Wash with plenty of scap and water. Get medical advice/attention.</li> <li>irst-aid measures after skin contact</li> <li>Wash with plenty of scap and water. Get medical advice/attention.</li> <li>irst-aid measures after ingestion</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.</li> <li>Indication of any immediate medical attention and special treatment needed</li> <li>The most important symptoms and effects. Both acute and delayed</li> <li>Statinguishing media</li> <li>Alcohol resistant foam. Carbon dixide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.</li> <li>Special hazards arising from the substance or mixture</li> <li>Thermal decomposition generates: Carbon oxides.</li> <li>Advice for firefighters</li> <li>O on ot attempt to take action without suitable protective equipment. For further information refer to section 8. "Exposure controls/personal predeation. Avoid raising dust. Do not breath dust.</li> <li>Fo</li></ul>					
inst-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial is appraches the estimation of the segmentation of the medical advice/attention. inst-aid measures after eye contact : Wash with lepting of soage and water. Get medical advice/attention. inst-aid measures after ingestion : Do NOT induce vomiting. Never give arything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 2. Most important symptoms and effects, both acute and delayed medical advice/attention. 3. Indication of any immediate medical attention and special treatment needed reat symptoms/in/uifes : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. 3. Indication of any immediate medical attention and special treatment needed reat symptoms/in/uifes : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire. 2. Special hazards arising from the substance or mixture in the razard : Thermal decomposition generates: Carbon oxides. 3. Advice for firefighting firefighting media : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ECCION 6: Accidental release measures 4. Personal precatutons, protective equipment and emergency procedures eneral measures : On on attempt to take action without suitable protective equipment may intervene. 4.1. For non-emergency personnel mergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. 4.2. For emergency responders 5. Context equipment is product enters severs or public waters. 4. Eviconmental precautions is defined severes or public waters. 4. Eviconmental precautions is defined severes or public waters. 4. Eviconmental for containments and cleaning up	First-aid measures general				
inst-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue insing. Get medical advice/attention.         irist-aid measures after ingestion       : Do NOT induce vomiling. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         2.       Most important symptoms and effects, both acute and delayed         ymptoms/injuries       : The most important hown symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         3.       Indication of any immediate medical attention and special treatment needed         reat symptomatically.       :         VECTION 5: Firefighting measures       :         4.1       Extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media         uitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media         uitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media         appropriate for surmounding fire.       :       Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2.       Special hazards       : Do not attempt to take action without suitable protective equipment may intervene.         3.       Adv	First-aid measures after inhalation	Remove	e person to fresh air and keep comforta		
present and easy to do. Continue insing. Get medical advice/attention.         irst-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.         2. Most important symptoms and effects, both acute and delayed	First-aid measures after skin contact	Wash w	ith plenty of soap and water. Get medi	cal advice/atten	tion.
irst-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention	First-aid measures after eye contact				
2. Most important symptoms and effects, both acute and delayed         ymptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         3. Indication of any immediate medical attention and special treatment needed         reat symptomatically.         ECTION 5: Firefighting measures         4. Extinguishing media         uitable extinguishing media         is hazards arising from the substance or mixture         rea based       : Thermal decomposition generates: Carbon oxides.         3. Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ECTION 6: Accidental release measures       : Evaduate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment may intervene.         1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure contr	First-aid measures after ingestion	Do NOT	induce vomiting. Never give anything	by mouth to an	
ymptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         .3.       Indication of any immediate medical attention and special treatment needed         reat symptomatically.         ECTION 5: Firefighting measures         .1.       Extinguishing media         .2.       Special hazards arising from the substance or mixture         ire hazard       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         .2.       Special hazards arising from the substance or mixture         ire hazard       : Thermal decomposition generates: Carbon oxides.         .3.       Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         EECTION 6: Accidental release measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         .1.1.       For non-emergency personnel       : Do not attempt to take action without suitable protective equipment may intervene.         .1.2.       For emergency responders       : Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         .2.       For emergency responders				nuon.	
2.2) and/or in section 11.         3.       Indication of any immediate medical attention and special treatment needed         reat symptomatically.         EECTION 5: Firefighting measures         .1.       Extinguishing media         .2.       Special hazards arising from the substance or mixture         .2.       Special hazards arising from the substance or mixture         .2.       Special hazards arising from the substance or mixture         .3.       Advice for firefighters         rotection during firefighting       : Thermal decomposition generates: Carbon oxides.         .3.       Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ECTION 6: Accidental release measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         .1.       For non-emergency personnel					
reat symptomatically.  ECTION 5: Firefighting measures  A. Extinguishing media  iitable extinguishing media  i Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.  A. Special hazards arising from the substance or mixture ire hazard  C. Special hazards arising from the substance or mixture ire hazard  C. Thermal decomposition generates: Carbon oxides.  Advice for firefighters rotection during firefighting  D on tattempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  ECTION 6: Accidental release measures  A. Personal precautions, protective equipment and emergency procedures  Five advice for non-emergency personnel mergency procedures  C. Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment may intervene.  A. Personal precautions, protective equipment and emergency procedures  Five advice of the equipment is contaitempt to take action without suitable protective equipment may intervene.  A. Personal precautions, protective equipment and emergency procedures  Five advice of the equipment is contaitempt to take action without suitable protective equipment may intervene.  A. Personal precautions  C. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective.  A. Exposure controls/personal protec					
ECTION 5: Firefighting measures         1. Extinguishing media         uitable extinguishing media         uitable extinguishing media         : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         :2. Special hazards arising from the substance or mixture         ire hazard       : Thermal decomposition generates: Carbon oxides.         3. Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ECTION 6: Accidental release measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment may intervene.         1.2. For emergency personnel       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment.		ttention a	and special treatment needed		
1. Extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         2. Special hazards arising from the substance or mixture         ire hazard       : Thermal decomposition generates: Carbon oxides.         3. Advice for firefighters       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ECTION 6: Accidental release measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2. Environmental precautions       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2. Environmental precautions       : Do not attempt to take action without suitable protective equipment. For further information refer to sect	Treat symptomatically.				
uitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         2.       Special hazards arising from the substance or mixture         ire hazard       : Thermal decomposition generates: Carbon oxides.         3.       Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         EECTION 6: Accidental release measures         1.       Personal precautions, protective equipment and emergency procedures         eneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1.       For non-emergency personnel         mergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2.       For emergency responders         rotective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2.       Environmental precautions         void release to the environment. Notify authorities if product enters sewers or public waters.         3.       Methods and material for containment and cleaning up	SECTION 5: Firefighting measures				
appropriate for surrounding fire.         2.       Special hazards arising from the substance or mixture         ire hazard       : Thermal decomposition generates: Carbon oxides.         3.       Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         EECTION 6: Accidental release measures         .1.       Personal precautions, protective equipment and emergency procedures         eneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         .1.1.       For non-emergency personnel         mergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         .1.2.       For emergency responders         rotective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         .2.       Environmental precautions         void release to the environment. Notify authorities if product enters sewers or public waters.         .3.       Methods and material for containment and cleaning up					
ire hazard       : Thermal decomposition generates: Carbon oxides.         .3. Advice for firefighters       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ECETION 6: Accidental release measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1. For non-emergency personnel       : Only qualified personnel equipped with suitable protective equipment may intervene.         .1.2. For emergency responders       : Only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective equipment may intervene.         .1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         .2. Environmental precautions       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         .3. Methods and material for containment and cleaning up       ************************************	Suitable extinguishing media			owder. Water sp	ray. Use extinguishing media
3. Advice for firefighters         rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         EECTION 6: Accidental release measures       .         .1. Personal precautions, protective equipment and emergency procedures         .eneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         .1.1. For non-emergency personnel       .         mergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         .1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         .2. Environmental precautions       void release to the environment. Notify authorities if product enters sewers or public waters.         .3. Methods and material for containment and cleaning up					
rotection during firefighting       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         EECTION 6: Accidental release measures	Fire hazard	Therma	I decomposition generates: Carbon oxi	des.	
refer to section 8: "Exposure controls/personal protection".  EECTION 6: Accidental release measures  .1. Personal precautions, protective equipment and emergency procedures eneral measures  .1. For non-emergency personnel mergency procedures  .1.1. For non-emergency personnel mergency procedures  .1.2. For emergency responders rotective equipment  .2. Environmental precautions void release to the environment. Notify authorities if product enters sewers or public waters.  .3. Methods and material for containment and cleaning up	5.3. Advice for firefighters				
1.       Personal precautions, protective equipment and emergency procedures         ieneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.         1.1.       For non-emergency personnel         mergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2.       For emergency responders         rotective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2.       Environmental precautions         void release to the environment. Notify authorities if product enters sewers or public waters.         3.       Methods and material for containment and cleaning up	Protection during firefighting				ment. For further information
<ul> <li>Evacuate unnecessary personnel. Ensure adequate air ventilation. Avoid raising dust. Do not breathe dust.</li> <li>For non-emergency personnel mergency personnel equipped with suitable protective equipment may intervene.</li> <li>For emergency responders rotective equipment is Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>Environmental precautions</li> <li>Notify authorities if product enters sewers or public waters.</li> <li>Methods and material for containment and cleaning up</li> </ul>					
Image: section of the seccccccccccccccccccccccccccccccccccc	6.1. Personal precautions, protective equipment and emergency procedures				
mergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.         1.2. For emergency responders       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2. Environmental precautions       void release to the environment. Notify authorities if product enters sewers or public waters.         3. Methods and material for containment and cleaning up					
1.2. For emergency responders         rotective equipment       : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         2. Environmental precautions         void release to the environment. Notify authorities if product enters sewers or public waters.         3. Methods and material for containment and cleaning up	6.1.1. For non-emergency personnel				
<ul> <li>constructive equipment</li> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>2. Environmental precautions</li> <li>void release to the environment. Notify authorities if product enters sewers or public waters.</li> <li>3. Methods and material for containment and cleaning up</li> </ul>	Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.				
refer to section 8: "Exposure controls/personal protection". 2. Environmental precautions void release to the environment. Notify authorities if product enters sewers or public waters. 3. Methods and material for containment and cleaning up	6.1.2. For emergency responders				
void release to the environment. Notify authorities if product enters sewers or public waters. 3. Methods and material for containment and cleaning up					
3. Methods and material for containment and cleaning up	6.2. Environmental precautions				
	Avoid release to the environment. Notify authorities if product enters sewers or public waters.				
	6.3. Methods and material for containment	t and clea	ning up		
	Methods for cleaning up	Sweep	or shovel spills into appropriate contain	ner for disposal.	Minimize generation of dust.

Storage area

Respiratory protection

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information		: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. R	eference to other sections		
No addition	al information available		
SECTION	N 7: Handling and storage		
7.1. P	recautions for safe handling		
Precautions	s for safe handling	: Ensure good ventilation of the work station. Do not breathe dust. Avoid raising dust. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene me	easures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. C	conditions for safe storage, inclue	ling any incompatibilities	
Storage cor	nditions	: Keep container tightly closed.	
Incompatible materials		: Refer to Section 10 on Incompatible Materials.	

: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection				
8.1.	Control parameters			
No additional information available				
8.2.	Exposure controls			
Approp	riate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hand protection		: Protective gloves.		
Eye protection		: Chemical goggles or safety glasses. Face shield.		
Skin and body protection		: Wear suitable protective clothing.		

: In case of insufficient ventilation, wear suitable respiratory equipment.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 142 - 144 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 100.07 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Ot	9.2. Other information				
No additiona	I information available				
SECTION	10: Stability and reactivity				
10.1. Re	eactivity				
No additiona	I information available				
10.2. Ch	nemical stability				
The product is stable at normal handling and storage conditions.					
10.3. Po	ssibility of hazardous reactions				
No additional information available					
10.4. Co	onditions to avoid				
No additional information available					
10.5. Inc	compatible materials				
Strong bases	Strong bases. Strong oxidizing agents.				

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information				
11.1.	Information on toxicological effects			

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information				
12.1.	Toxicity			
No addi	tional information available			
12.2.	Persistence and degradability			
No addit	tional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			
No additional information available				

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.			
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

### TDG

No additional information available

#### Transport by sea

No additional information available

### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Furan-2,4-dione
-----------------

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS No 4971-56-6

#### **15.2. International regulations**

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

#### Furan-2,4-dione (4971-56-6)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### **SECTION 16: Other information**

Full text of H-phrases:

•	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

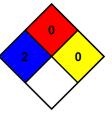
NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



100%

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.