

Multi-region format

Revision: 03/19/2019 Supersedes Revision: 01/06/2014

		accordi	ng to Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	30 and US OSHA HCS	2015		
		Section 1.	Identification of the Substan	nce/Mixture and of t	he Company/Ur	ndertaking		
.1	Product	t Code:	14193					
	Product	t Name:	GANT 58					
	Synony	ms:	4,4',4",4"'-(2,3,4,5-thioph	enetetrayl)tetrakis-p	yridine; NSC 755	03;		
.2	Relevar	nt identified uses o	of the substance or mixture a	Ind uses advised ag	jainst:			
	Relevant identified uses: For research use only, not for human or veterinary use.							
.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name: Cayman Chemical Con		any					
			1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com	www.caymanchem.com				
	Inform	nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335		
.4	Emerge	ncy telephone nu	mber:					
	Emerg	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
			Section 2. Haz	zards Identific	ation			
2.1	Classifi	cation of the Subs	stance or Mixture:					
2.2	Label E	lements:						
	GHS S	Signal Word:	None					
	GHS Hazard Phrases:							
	Based	d on evaluation of c	urrently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.		
		Precaution Phrase	-			·		
	No phrases apply.							
	GHSI	Response Phrases	S:					
		Response Phrases	5:					
	No ph	rases apply.						
	No ph GHS \$	rases apply. Storage and Dispo	osal Phrases:	Disposal information				
	No ph GHS S Please	rases apply. Storage and Dispo e refer to Section 7	osal Phrases: for Storage and Section 13 for	•		niratory tract		
2.3	No ph GHS S Please Advers	rases apply. Storage and Dispo e refer to Section 7 e Human Health	osal Phrases: for Storage and Section 13 for Material may be irritating to tl	he mucous membran	es and upper res	spiratory tract.		
2.3	No ph GHS S Please Advers	rases apply. Storage and Dispo e refer to Section 7	osal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation	he mucous membran , ingestion, or skin al	es and upper res osorption.	piratory tract.		
3	No ph GHS S Please Advers	rases apply. Storage and Dispo e refer to Section 7 e Human Health	osal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membran , ingestion, or skin at iratory system irritatio	ies and upper res osorption. on.			
2.3	No ph GHS S Please Advers	rases apply. Storage and Dispo e refer to Section 7 e Human Health and Symptoms:	osal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge	he mucous membran , ingestion, or skin al iratory system irritation , the toxicological pro	les and upper res osorption. on. operties have not	been thoroughly investigated.		
2.3	No ph GHS S Please Advers Effects	rases apply. Storage and Dispo e refer to Section 7 are Human Health and Symptoms: Sec	for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition	he mucous membran , ingestion, or skin al iratory system irritatio , the toxicological pro /Information c	ies and upper res osorption. on. operties have not	been thoroughly investigated.		
CAS	No ph GHS : Please Advers Effects	rases apply. Storage and Dispo e refer to Section 7 the Human Health and Symptoms: Sec Hazardous Com	bsal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition	he mucous membran , ingestion, or skin al iratory system irritation , the toxicological pro	es and upper res osorption. operties have not on Ingrediel EC No./	been thoroughly investigated.		
CAS	No ph GHS S Please Advers Effects	rases apply. Storage and Dispo e refer to Section 7 and Symptoms: SeC	bsal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition	he mucous membran , ingestion, or skin al iratory system irritatio , the toxicological pro /Information c	ies and upper res osorption. on. operties have not	been thoroughly investigated.		



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		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 contaminate 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.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties and Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	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
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and Emergency Procedures:	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).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		\cdot Contain spill and collect, as appropriate. gTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sect	ion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

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8.2	Exposure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:	oat				
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	t take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
	١	Wash thoroughly after handling.				
	1	No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	cal and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A crystalline solid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or	mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)): No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~1.4 mg/ml in EtOH; ~1.1 mg/ml in DMSO; ~2.5 mg/ml in DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu	re: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigl	ht: C24H16N4S 392.5				

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			Section 10. Stability a	and Reactiv	vity			
0.1	Reactivi	ty:	No data available.					
0.2	Stability	:	Unstable [] Stable [X]					
10.3 Stability Note(s):			Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [] Will not occur [X]					
0.4	Conditio	ons To Avoid:	No data available.					
10.5 Incompatibility - Materials strong oxidizing agents								
	To Avoid	d:						
0.6	Hazardous		carbon dioxide					
	=	osition or	carbon monoxide					
	Byprodu	icts:	nitrogen oxides					
			sulfur oxides					
			Section 11. Toxicologi					
1.1	Informat Toxicolo	tion on ogical Effects:	The toxicological effects of this produ	ict have not been	thoroughly st	udied.		
CAS #		1	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	8-12-0	GANT 58		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologic	al Informati				
2.1	Toxicity		Avoid release into the environment.					
2.1	TOXICITY	•	Runoff from fire control or dilution wa	ter may cause po	ollution			
2.2	Persiste	nce and	No data available.	tor may eaded pe				
2.2								
2.3	-	Degradability:						
2.3	Dioaccu		No data availabla					
	Potontia	mulative	No data available.					
2.4	Potentia	l:						
2.4	Mobility	l: in Soil:	No data available.					
2.4 2.5	Mobility Results	l: in Soil: of PBT and vPvB						
2.5	Mobility Results assessm	I: in Soil: of PBT and vPvB nent:	No data available. No data available.					
	Mobility Results assessm	l: in Soil: of PBT and vPvB	No data available. No data available. No data available.					
2.5	Mobility Results assessm Other ad	I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. Section 13. Disposal (
2.5	Mobility Results assessm Other ad	I: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta	te, and federal re	egulations.			
2.5	Mobility Results assessm Other ad	I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. Section 13. Disposal (te, and federal re	egulations.			
2.5	Mobility Results assessm Other ad Waste D	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT):	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 D(Mobility Results assessm Other ad Waste D LAND T	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT):	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 D(Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazar	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT):	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 D(Mobility Results assessm Other ad Waste D LAND T DT Prope OT Hazard	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 D(U) 14.1	Mobility Results assessm Other ad Waste D LAND T DT Prope OT Hazard N/NA Nun LAND T	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 DC UN 14.1 AI	Mobility Results assessm Other ad Waste D LAND T DT Prope OT Hazard N/NA Nun LAND T DR/RID S	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.			
2.5 2.6 3.1 14.1 D(U) 14.1 AI U)	Mobility Results assessm Other ad Waste D LAND T DT Prope OT Hazard N/NA Nun LAND T	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name: r:	No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods.	te, and federal re	egulations.			

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
64048-12-0	GANT 58		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
64048-12-0	GANT 58		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Informatio	n		
Revision Date:		03/19/2019				
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.				