

COPPER(II) 1,1,1-TRIFLUORO-2,4-PENTANEDIONATE

Safety Data Sheet AKC264 Date of issue: 01/20/2017 Vers

Version: 1.0

SECTION 1: Identification			
1.1. Product identifier			
Product name	: COPPER(II) 1,1,1-TRIFLUORO-2,4-PENTANEDIONATE		
Product code	: AKC264		
Product form	: Substance		
Physical state	: Solid		
Formula	: C10H8CuF6O4		
Synonyms	: CUPRIC TRIFLUOROACETYLACETONATE		
	BIS(1,1,1-TRIFLUOROPENTANE-2,4-DIONATO-O,O')COPPER		
Chemical family	: METAL COMPOUND		
1.2. Recommended use of the chem	ical and restrictions on use		
Recommended use	: Chemical intermediate For research use only		
1.3. Details of the supplier of the sa	fety data sheet		
GELEST, INC.			
11 East Steel Road			
Morrisville, PA 19067			
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8	3:00 AM - 5:30 PM EST		
info@gelest.com - www.gelest.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)		
SECTION 2: Hazard(s) identificat	ion		
	or mixture		
GHS-US classification			
Skin corrosion/irritation Category 2	H315		
Serious eye damage/eye irritation Category Specific target organ toxicity (single exposur			
Full text of H statements : see section 16			
Tuil text of 11 statements . see section 10			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Hazard pictograms (GHS-03)			
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritation		
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation		
Precautionary statements (GHS-US)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection		
	P261 - Avoid breathing dust		
	P264 - Wash hands thoroughly after handling		
	P271 - Use only outdoors or in a well-ventilated area		
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P302+P352 - If on skin: Wash with plenty of soap and water		
	P332+P313 - If skin irritation occurs: Get medical advice/attention		
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove		
	contact lenses, if present and easy to do. Continue rinsing		
	P337+P313 - If eye irritation persists: Get medical advice/attention P312 - Call a doctor if you feel unwell		
	P321 - Specific treatment (see first aid instructions on this label)		
	P362+P364 - Take off contaminated clothing and wash it before reuse		
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed		
	P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility		
Drint data: 01/20/2017			

No additional information available						
2.4. Unknown acute toxicity (GHS U	S)					
No data available						
SECTION 3: Composition/Information	ation on ingredients					
3.1. Substances						
Substance type	: Mono-constituent					
Name	: COPPER(II) 1,1,1-TRIFLUOR	: COPPER(II) 1,1,1-TRIFLUORO-2,4-PENTANEDIONATE				
CAS No	: 14324-82-4					
Name	Product identifier	%	GHS-US classification			
Copper(II) 1,1,1-trifluoro-2,4-pentanedionate	(CAS No) 14324-82-4	95 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335			
Full text of hazard classes and H-statements	s : see section 16					
3.2. Mixtures						
Not applicable						
4.1. Description of first aid measure	s					
First-aid measures general	: Remove contaminated clothing	and shoes. In case of accid	lent or if you feel unwell seek			
		how the label where possible	e). If possible show this sheet; if no			
First-aid measures after inhalation	: Remove victim to fresh air and unwell, seek medical advice.	keep at rest in a position co	mfortable for breathing. If you feel			
First-aid measures after skin contact	: Wash with plenty of soap and	water. Get medical advice/at	tention.			
First-aid measures after eye contact	present and easy to do. Contin	ue rinsing. Get medical advi				
First-aid measures after ingestion	: Never give anything by mouth	to an unconscious person. G	Set medical advice/attention.			
4.2. Most important symptoms and e	effects, both acute and delayed					
Symptoms/injuries after inhalation	: May cause respiratory irritation coughing has been observed		0			
Symptoms/injuries after skin contact	: Causes skin irritation.					
Symptoms/injuries after eye contact	: Causes serious eye irritation.					
Symptoms/injuries after ingestion	: No information available.					
4.3. Indication of any immediate me	dical attention and special treatmen	needed				
No additional information available						
SECTION 5: Firefighting measure	es					
5.1. Extinguishing media						
Suitable extinguishing media	: Water spray. Foam. Carbon d	oxide. Dry chemical.				
Unsuitable extinguishing media	: None known.	,				
5.2. Special hazards arising from the						
Fire hazard	: Irritating fumes and organic ac	id vanors may develop when	material is exposed to elevated			
	temperatures or open flame.	a raporo may develop witch				
5.3. Advice for firefighters	•					
Firefighting instructions	: Exercise caution when fighting	any chemical fire. Use wate	r spray to cool exposed surfaces.			
Protection during firefighting	0 0	proper protective equipment,	including respiratory protection.			
SECTION 6: Accidental release m	neasures					
6.1. Personal precautions, protective	e equipment and emergency proced	ures				
6.1.1. For non-emergency personnel						
Protective equipment	: Wear protective equipment as	described in Section 8.				
Emergency procedures	: Evacuate unnecessary persor					
612 For omorganou roomenders						
6.1.2. For emergency responders	· Do not attampt to take action	vithout suitable protective as	uinment Equin clospup crowwith			
Protective equipment	Do not attempt to take action v proper protection. For further i		uipment. Equip cleanup crew with "Exposure controls/personal			

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

		and cleaning up Contain any spills with dikes or absorbents to prevent migration and entry into sewers or		
For containment	streams.	any spins with likes of absorberts to prevent migration and entry into sewers of		
Methods for cleaning up	·	r shovel spills into appropriate container for disposal.		
6.4. Reference to other section				
See Heading 8. Exposure controls a	nd personal protection.			
SECTION 7: Handling and s				
7.1. Precautions for safe han	•			
Precautions for safe handling	or in a we	 Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Use only outdoo or in a well-ventilated area. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 		
Hygiene measures				
7.2. Conditions for safe stora				
Storage conditions		: Keep container tightly closed. Store locked up.		
Storage area	: Store in a	a well-ventilated place. Store away from heat.		
SECTION 8: Exposure cont	rols/personal prote	ection		
8.1. Control parameters				
Copper(II) 1,1,1-trifluoro-2,4-pen	tanedionate (14324-82-4			
	CGIH TWA (mg/m ³)	1 mg/m ³ as Cu		
L				
8.2. Exposure controls				
Appropriate engineering controls	: Provide le	ocal exhaust or general room ventilation.		
Personal protective equipment	: Avoid all	unnecessary exposure. Emergency eye wash fountains and safety showers should		
		in the immediate vicinity of any potential exposure.		
Hand protection	: Neoprene	e or nitrile rubber gloves.		
Eve protection	· Chemica	Loogales, Contact lenses should not be worn		
		I goggles. Contact lenses should not be worn.		
Skin and body protection	: Wear sui	table protective clothing.		
Skin and body protection	: Wear sui : Where ex	table protective clothing. prosure through inhalation may occur from use, respiratory protection equipment is		
Skin and body protection Respiratory protection	: Wear sui : Where ex recomme	table protective clothing. posure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator.		
Skin and body protection Respiratory protection	: Wear sui : Where ex recomme	table protective clothing. posure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator.		
Skin and body protection Respiratory protection SECTION 9: Physical and c	: Wear sui : Where ex recomme :hemical properties	table protective clothing. kposure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator.		
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Skin and body protection Respiratory protection SECTION 9: Physical and c 9.1. Information on basic phy Physical state Appearance Molecular mass Color Odor	: Wear sui : Where ex recommend : Memical properties ysical and chemical pro : Solid : Solid : Solid. : 430.09 g. : Blue-pur	table protective clothing. kposure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator. perties /mol ble. available		
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Skin and body protection Respiratory protection SECTION 9: Physical and c 9.1. Information on basic phy Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index	: Wear sui : Where ex recomments themical properties ysical and chemical pro : Solid : Solid. : 430.09 g : Blue-pur : No data a : No data a	table protective clothing. kposure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator. perties /mol ble. available available available		
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Skin and body protection Respiratory protection SECTION 9: Physical and c 9.1. Information on basic phy Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acet Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density VOC content	: Wear sui : Where ex- recomment : Solid : 430.09 g : Blue-purp : No data a : No data a	table protective clothing. kposure through inhalation may occur from use, respiratory protection equipment is ended. NIOSH-certified dust and mist (teal cartridge) respirator. perties /mol ole. available available available available available available available available available available available available available available available available available available in water. available		

Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Material decomposes slowly in contact with air by	y reaction with water.
10.4. Conditions to avoid No additional information available	
10.5. Incompatible materials No additional information available	
10.6. Hazardous decomposition products Fluorinated organic vapors. Organic acid vapors.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects Acute toxicity Inclusion	: Not classified
Skin corrosion/irritation Serious eye damage/irritation	: Causes skin irritation. : Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP,
	OSHA or ACGIH as a carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
	: Not classified
Aspiration hazard Symptoms/injuries after inhalation	: May cause respiratory irritation. An allergic reaction consisting of violent sneezing and
	coughing has been observed with other metal fluorinated pentanedionates.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No information available.
Reason for classification	: Expert judgment
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	

No additional information available

12.5. Other adverse effects Other adverse effects	This substance may be becarded to the environment		
Effect on ozone layer	 This substance may be hazardous to the environment. No additional information available 		
Effect on the global warming	: No known effects from this product.		
GWPmix comment	: No known effects from this product.		
SECTION 13: Disposal consideration	IS		
13.1. Waste treatment methods			
Sewage disposal recommendations	: Do not dispose of waste into sewer.		
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility. 		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport information			
14.1. UN number			
Not regulated for transport.			
14.2. UN proper shipping name			
Not applicable			
14.3. Additional information			
Other information	: No supplementary information available.		
Trepenert by see			
Transport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
COPPER(II) 1,1,1-TRIFLUORO-2,4-PENTANE	DIONATE (14324-82-4)		
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States		
Conner/II) 1 1 1 trifluere 2 1 nentenedienete	(4.4224, 92.4)		
Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Not listed on the United States TSCA (Toxic Su			
Not listed on the United States TSCA (Toxic St	instances control Act) inventory		
15.2. International regulations			
CANADA			
CANADA			
CANADA No additional information available	(14324-82-4)		
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate	(14324-82-4) n Inventory of Existing Commercial Chemical Substances)		
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate			
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available			
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available 15.3. US State regulations			
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available			
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available 15.3. US State regulations No additional information available			
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available 15.3. US State regulations			
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CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available 15.3. US State regulations No additional information available SECTION 16: Other information Full text of H-phrases:: H315	n Inventory of Existing Commercial Chemical Substances)		
CANADA No additional information available EU-Regulations Copper(II) 1,1,1-trifluoro-2,4-pentanedionate Listed on the EEC inventory EINECS (Europea National regulations No additional information available 15.3. US State regulations No additional information available SECTION 16: Other information Full text of H-phrases::	n Inventory of Existing Commercial Chemical Substances)		

COPPER(II) 1,1,1-TRIFLUORO-2,4-PENTANEDIONATE

Safety Data Sheet

Abbreviations and acronyms	:	Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling.
HMIS III Rating		
Health	:	3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	:	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.
Prepared by safety and environmental affairs.		

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SDS US (GHS HazCom 2012) - Custom

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

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