

BISMUTH NEODECANOATE, 99+%

Safety Data Sheet CXBI060 Date of issue: 07/24/2015 Versic Version: 1.0

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	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: BISMUTH NEODECANOATE, 99+%
Product code	: CXBI060
Formula	: C30H57BiO6
Synonyms	: BISMUTH 1,1-DIMETHYLOCTANOATE; NEODECANOIC ACID, BISMUTH SALT
Chemical family	: METAL COMPOUND
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Chemical intermediate For research use only
1.3. Details of the supplier of the safety	data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067 USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com	AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or n	nixture
Classification (GHS-US)	
Eye Irrit. 2A H319	
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)	: H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P264 - Wash hands thoroughly after handling
	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
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
SECTION 3: Composition/informatic	n on ingredients
3.1. Substance	
Substance type	: Multi-constituent
Name	: BISMUTH NEODECANOATE, 99+%
CAS No	: 62804-17-5
Name	Product identifier % Classification (GHS-US)
Bismuth neodecanoate	(CAS No) 62804-17-5 > 95 Eye Irrit. 2A, H319

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Name		Product identifier	%	Classification (GHS-US)
Neodecanoic acid		(CAS No) 26896-20-8	< 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	S			
First-aid measures general	me	nove contaminated clothing and shoe dical advice immediately (show the la ilable show packaging or label.		,
First-aid measures after inhalation		nove victim to fresh air and keep at revel, seek medical advice.	est in a position con	fortable for breathing. If you feel
First-aid measures after skin contact	: Wa	sh with plenty of soap and water.		
First-aid measures after eye contact		nediately flush eyes thoroughly with v sent and easy to do. Continue rinsing		
First-aid measures after ingestion	: Nev	er give anything by mouth to an unco	onscious person. Ge	et medical advice/attention.
4.2. Most important symptoms and	effects, bot	h acute and delayed		
Symptoms/injuries after inhalation	: Ma	cause irritation to the respiratory tra	ict.	
Symptoms/injuries after skin contact	: Ma	/ cause skin irritation.		
Symptoms/injuries after eye contact	: Cau	ises serious eye irritation.		
Symptoms/injuries after ingestion		eneral, bismuth compounds have mo ark line in the gums, similar to plumbi		y. High levels of ingestion result in

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.			
Unsuitable extinguishing media	: None known.			
5.2. Special hazards arising from the substance or mixture				
Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevate temperatures or open flame.				
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.			

SECTI	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
6.1.1.	For non-emergency personnel	
Protectiv	e equipment	: Wear protective equipment as described in Section 8.
Emergen	cy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters. Notify	v authorities if product enters sewers or public waters.
6.3.	Methods and material for containme	ent and cleaning up
Methods	for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.
6.4.	Reference to other sections	
See Hea	ding 8. Exposure controls and personal	protection.
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling	 Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors.

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Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, include	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Water.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should b available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Liquid. Viscous.
Molecular mass	: 722.71 g/mol
Color	: Amber. Brown.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.2
VOC content	: <1%
Solubility	: Insoluble in water. Organic solvent:Soluble: hexane, methanol, toluene
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
	: No data available
Oxidizing properties	

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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	reaction with water and carbon dioxide.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Water.	
10.6. Hazardous decomposition products	
Organic acid vapors. Bismuth oxide fumes.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	Also also a 10 a al
Acute toxicity	: Not classified
Neodecanoic acid (26896-20-8)	
LD50 oral rat	2000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat ATE US (oral)	> 3000 mg/kg
Skin corrosion/irritation	2000.000 mg/kg body weight : Not classified
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)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: In general, bismuth compounds have moderate to low toxicity. High levels of ingestion result in
	a dark line in the gums, similar to plumbism.
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	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 12: Dispession consideration	
SECTION 13: Disposal consideration	
13.1. Waste treatment methods	· Diapage in a sofe manner in appardance with local/patienal regulations
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
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Ecology - waste materials	: Av	/oid rel	ease to the environment.		
SECTION 14: Transpo	ort information				
14.1. UN number					
Not regulated for transport.					
14.2. UN proper shippir	ng name				
Not applicable	ig nume				
14.3. Additional information			an anton information availab		
Other information	: NC	o supp	ementary information availab	DIE.	
Transport by sea					
No additional information ava	ailable				
Air transport					
No additional information ava	ilable				
SECTION 15: Regulate	ory information				
15.1. US Federal regulation	S				
BISMUTH NEODECANOA	TE, 99+% (62804-17-5)				
TSCA Exemption/Exclusion				for research and development	
				R 720.36, and must meet the re	
				"technically qualified individuation of the second seco	
			mitted in the United States.		
Bismuth neodecanoate (6	2804-17-5)				
Not listed on the United Sta	tes TSCA (Toxic Substan	ces Co	ntrol Act) inventory		
Neodecanoic acid (26896-	-20-8)				
Listed on the United States	TSCA (Toxic Substances	Contro	ol Act) inventory		
15.2. International regulation	ons				
Needecancie soid (26806	20. 9)				
Neodecanoic acid (26896- Not listed on the AICS (Aus		ical Su	hetancoc)		
			s Produced or Imported in C	hina)	
Listed on the Canadian DSI	L (Domestic Sustances Lis	st)			
Listed on NZIoC (New Zeala Listed on PICCS (Philippine			nemical Substances)		
			of Existing Commercial Chem	nical Substances)	
15.3. US State regulations					
BISMUTH NEODECANOAT	· · · ·	No			
U.S California - Proposition		No			
U.S California - Proposition Toxicity	r 65 - Developmental	No			
U.S California - Proposition Toxicity - Female	1 65 - Reproductive	No			
U.S California - Proposition	65 - Reproductive	No			
Toxicity - Male	-1				
Bismuth neodecanoate (62	804-17-5)				
U.S California -	U.S California -		J.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 - Developmental Toxicity		Proposition 65 - Reproductive Toxicity -	Proposition 65 -	(NSRL)
Carcinogens List			Female	Reproductive Toxicity - Male	
No	No		No	No	
		'			
Neodecanoic acid (26896-20 U.S California -	0-8) U.S California -	I I	J.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -		Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	F	Reproductive Toxicity -	Reproductive Toxicity -	(
		F	Female	Male	
No	No	1	No	No	
<u> </u>		1		•	·

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SECTION 16: Other informatio	n
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 for Economic Co-operation and Development.

Full text of H-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H302	Harmful if swallowed
H319	Causes serious eye irritation

HMIS III Rating

Health Flammability Physical : 2 Moderate Hazard - Temporary or minor injury may occur

: 1 Slight Hazard

: 0 Minimal Hazard

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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