

ALUMINUM 3,5-HEPTANEDIONATE

Safety Data Sheet AKA062 Date of issue: 06/19/2017 Version: 1.0

SECTION 1: Identification			
1.1. Product identifier			
Product name	: ALUMINUM 3,5-HEPTANEDIONATE		
Product code	: AKA062		
Product form	: Substance		
Physical state	: Liquid		
Formula	: C21H33AlO6		
Synonyms	: TRIS(HEPTANEDIONATO)ALUMINUM		
	3,5-HEPTANEDIONE, ALUMINUM CO	MPLEX	
Chemical family	: METAL COMPOUND		
1.2. Recommended use of the chemi	cal and restrictions on use		
Recommended use	: Chemical intermediate For research use only		
1.3. Details of the supplier of the safe	ety data sheet		
GELEST, INC.			
11 East Steel Road			
Morrisville, PA 19067 USA			
T 215-547-1015 - F 215-547-2484 - (M-F): 8	: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 (Ir	nternational)
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)			
Negatives (QUO UO)	GHS07		
Signal word (GHS-US) Hazard statements (GHS-US)	: Warning		
Hazard statements (GHS-US)		andling cautiously with wat o. Continue rinsing	ter for several minutes. Remove
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 Warning H319 - Causes serious eye irritation P280 - Wear protective gloves/protective P264 - Wash hands thoroughly after hat P305+P351+P338 - IF IN EYES: Rinse contact lenses, if present and easy to d P337+P313 - If eye irritation persists: G 	andling cautiously with wat o. Continue rinsing	ter for several minutes. Remove
Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Hazards not otherwise classified	 Warning H319 - Causes serious eye irritation P280 - Wear protective gloves/protective P264 - Wash hands thoroughly after hat P305+P351+P338 - IF IN EYES: Rinse contact lenses, if present and easy to d P337+P313 - If eye irritation persists: G 	andling cautiously with wat o. Continue rinsing	ter for several minutes. Remove
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3.2. Mixtures	
Not applicable	
4.1. Description of first aid measures	3
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if no available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: No information available.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: 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 elevated
	temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
6.1.2. For emergency responders Protective 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. N	lotify authorities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	onal protection.
SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Precautions 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.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

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Conditions for safe storage, including any incompatibilities torage conditions : Keep container tightly closed.				
compatible materials : Strong oxidizing agents.				
Storage area	: Store in a well-ventilated place.	d place. Store away from heat.		
SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Aluminum 3,5-heptanedionate (2				
ACGIH AC	CGIH TWA (mg/m³)	2 mg/m³ Al		
8.2. Exposure controls				
Appropriate engineering controls	: Provide local exhaust or genera	l room ventilation.		
Personal protective equipment		 Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should available in the immediate vicinity of any potential exposure. 		
Hand protection	: Neoprene or nitrile rubber glove	s.		
Eye protection	: Chemical goggles. Contact lens	es should not be worn.		
Skin and body protection	: Wear suitable protective clothin	g.		
Respiratory protection		 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator. 		
SECTION 9: Physical and c	hemical properties			
	ysical and chemical properties			
Physical state	: Liquid			
Appearance	: Liquid.			
Molecular mass	: 408.47 g/mol			
Color	: Pale yellow.			
Odor	: Very slight.			
Odor threshold	: No data available			
Refractive index pH	: 1.4885 : No data available			
Relative evaporation rate (butyl acet	ate=1) : No data available			
Melting point	: 120 - 137 °C			
Freezing point	: No data available			
Boiling point	: > 250 °C			
Flash point	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapor pressure	: < 5 mm Hg @ 25°C			
Relative vapor density at 20 °C	: No data available			
Relative density	: 1.043			
VOC content	: <1 %			
Solubility	: Insoluble in water. Water: Soluble: 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			
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				
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10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	3
Aluminum oxide fumes. Organic acid vapors.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/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	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects 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	
Effect on ozone layer	: 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	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
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Ecology - waste materials : Avoid release to the environment.

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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.	
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
ALUMINUM 3,5-HEPTANEDIONATE (25325-5	i4-6)	
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.	
Aluminum 2.5 hantanadianata (25225.54.0)		
Aluminum 3,5-heptanedionate (25325-54-6) Not listed on the United States TSCA (Toxic Su	bstances Control Act) inventory	
15.2. International regulations CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available		
45.2.110 Otata namulation a		
15.3. US State regulations No additional information available		
SECTION 16: Other information		
SECTION 16: Other Information		
Full text of H-phrases::		
H319	Causes serious eye irritation	
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	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,	
	solids and semi solids having a flash point above 200 F. (Class IIIB)	
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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