

Safety Data Sheet AKA076 Date of issue: 03/12/2015 Vers Version: 1.0

SECTION 4. Identification of the own					
	bstance/mixture and of the company/undertaking				
1.1. Product identifier	. Cultatanaa				
Product form	: Substance : Solid				
Physical state					
Substance name	: ALUMINUM N-NITROSOPHENYLHYDROXYLAMINE				
Product code					
Formula					
Synonyms	ALUMINUM CUPFERRONATE; TRIS(N-HYDROXY-N-NITROSOPHENYLAMINATO- O,O')ALUMINIUM; N-NITROSO-N-PHENYLHYDROXYLAMINE ALUMINUM SALT				
Chemical family	: ALUMINUM COMPOUND				
	stance or mixture and uses advised against				
Use of the substance/mixture	: Chemical intermediate				
	For research and industrial use only				
1.3. Details of the supplier of the safety	v 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	0 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	mixture				
Classification (CHS-US)					
Classification (GHS-US) Eye Irrit. 2A H319					
Muta. 2 H341					
Carc. 2 H351					
Full text of H-phrases: see section 16					
2.2. Label elements					
GHS-US labeling					
Hazard pictograms (GHS-US)					
Tiazard pictograms (GFIS-03)					
	\mathbf{v} \mathbf{v}				
	GHS07 GHS08				
Signal word (GHS-US)	: Warning				
Hazard statements (GHS-US)	: H319 - Causes serious eye irritation H341 - Suspected of causing genetic defects				
	H351 - Suspected of causing genetic defects				
Precautionary statements (GHS-US)	: P201 - Obtain special instructions before use				
,	P202 - Do not handle until all safety precautions have been read and understood				
	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				
	P308+P313 - If exposed or concerned: Get medical advice/attention				
	P337+P313 - If eye irritation persists: Get medical advice/attention				
	P405 - 5101e 100keo 110				
	P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility.				
2.3. Other hazards					
2.3. Other hazards No additional information available					

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SECTION 3: Composition/information on ingredients				
3.1. Substance				
Substance type: Mono-constituentName: ALUMINUM N-NITROSOPHENYLHYDROXYLAMINECAS No: 15305-07-4EC no: 239-341-7				
Name		Product identifier	%	Classification (GHS-US)
Aluminum N-nitrosophenylhydroxylamine		(CAS No) 15305-07-4	> 95	Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 2, H351

3.2. Mixture

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
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 not 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.		
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 eff	ects, both acute and delayed		
Symptoms/injuries	: May cause cancer. May cause genetic defects.		
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	: May be harmful if swallowed.		
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	: Foam. Carbon dioxide. Dry chemical.		
5.2. Special hazards arising from the s	ubstance 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	
Firefigh	ting instructions	: Exercise caution when fighting any chemical fire.
Protect	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

SECTION 6: Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
Emerge	ncy procedures	: Evacuate unnecessary personnel.			
6.1.2.	For emergency responders				
Protecti	ve equipment	: Equip cleanup crew with proper protection.			
6.2.	Environmental precautions				
Notify authorities if product enters sewers or public waters.					
6.3.	Methods and material for containment and cleaning up				
Method	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal.			
6.4.	Reference to other sections				
See Heading 8. Exposure controls and personal protection.					

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SECTION 7: Handling and	torage
7.1. Precautions for safe har	ling .
Precautions for safe handling Hygiene measures	 Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Do not allow dust to accumulate in work areas. Wash hands and other exposed areas with mild soap and water before eating, drinking or explain and when logging the contemported eleting before range.
	smoking and when leaving work. Wash contaminated clothing before reuse.
	ge, including any incompatibilities
Storage conditions	: Keep container tightly closed. Store in sealed containers below 10°C.
Incompatible materials Storage area	 Oxidizing agent. Strong acids. Strong bases. Store in a well-ventilated place. Store away from heat.
-	. Store in a weil-ventilated place. Store away nom neat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure con	ols/personal protection
8.1. Control parameters	
Aluminum N-nitrosophenylhydr	xylamine (15305-07-4)
USA ACGIH AG	GIH TWA (mg/m³) 2 mg/m³ (Al)
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 o	nomical properties
	sical and chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 438.3 g/mol
Color	: Off-white. Yellow. Brown.
Odor	: Slight.
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl ace	ate=1) : No data available
Melting point	: 168 - 170 °C decomposes
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: 373 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: <1 mm Hg @ 25°C
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
VOC content	: <1%
	: Insoluble in water. Reacts with water.
Solubility	
	: No data available
Log Pow	: No data available : No data available
Log Pow Log Kow	
Log Pow Log Kow Viscosity, kinematic	: No data available
Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, dynamic Explosive properties	: No data available : No data available

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Explosive 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	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Oxidizing agent. Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
Aluminum oxides. Nitrogen oxides. Organic acid	
	·
SECTION 11: Toxicological informat	h
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Aluminum N-nitrosophenylhydroxylamine (
LD50 oral rat	2330 - 2560 mg/kg
ATE US (oral) Skin corrosion/irritation	2330.000 mg/kg body weight : Not classified
Serious eye damage/irritation	Causes serious eye irritation.
	rabbit eye- non-irritating
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
	Reverse mutation data in S. typhimurium and E. coli: weak positive.
Carcinogenicity	: Suspected of causing cancer.
	The organic ligand NNitrosophenylhydroxylamine has been classified as tumerogenic (NCITR*NCI-CG-TR-100, 78)
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	: May be harmful if swallowed.
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 criveres effects	
12.5. Other adverse effects Effect on ozone layer	: No additional information available
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Effect on the global warming	: No	know	n ecological damage caused	by this product.	
SECTION 13: Disposa	I considerations				
13.1. Waste treatment n	nethods				
Waste disposal recommenda	acc	cordar		at a licensed site. Dispose in a ions. Dispose of contents/conta	
Ecology - waste materials	: Avo	oid rel	ease to the environment.		
SECTION 14: Transpo	rt information				
14.1. UN number					
Not regulated for transport.					
14.2. UN proper shippir	ng name				
Not applicable					
14.3. Additional information	on				
Other information		supp	ementary information availab	le	
	. 10	oupp			
Transport by sea					
No additional information ava	ilable				
Air transport					
No additional information ava	ilable				
SECTION 15: Regulate	ory information				
15.1. US Federal regulation					
Aluminum N-nitrosophen	ylhydroxylamine (15305-0	07-4)			
Listed on the United States			ol Act) inventory		
15.2. International regulation	ons				
Aluminum N-nitrosophen	vlhvdroxvlamine (15305-0	07-4)			
Listed on the AICS (Australi			ances)		
Listed on the Canadian DSI	_ (Domestic Sustances List	t)			
Listed on IECSC (Inventory	of Existing Chemical Subs	stance	es Produced or Imported in Ch of Existing Commercial Chemi	nina) ical Substances)	
Listed on the Japanese EN				ical Substances)	
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zeals			homiaal Substances)		
Listed on PICCS (Philippine			nemical Subsidiices)		
15.3. US State regulations					
ALUMINUM N-NITROSOPH	ENYLHYDROXYLAMINE(15305	5-07-4)		
U.S California - Proposition		No			
U.S California - Proposition	65 - Developmental	No			
Toxicity					
U.S California - Proposition Toxicity - Female	65 - Reproductive	No			
U.S California - Proposition Toxicity - Male	65 - Reproductive	No			
Aluminum N-nitrosophenyl	hydroxylamine (15305-07	7-4)			
U.S California -	U.S California -		J.S California -	U.S California -	No significance risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	F	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)

No

No

No

No

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SECTION 16: Other information	2n
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 an 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 Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta. 2	Germ cell mutagenicity Category 2
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer

HMIS III Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability Physical : 1 Slight Hazard : 1 Slight Hazard

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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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