

# SAFETY DATA SHEET

Revision Date 24-Feb-2020

**Revision Number** 2

1. Identification		
Product Name	Cerium(III) 2-ethylhexanoate, 49% in 2-ethylhexanoic acid, Ce 12%	
Cat No. :	40451	
Synonyms	No information available	
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>data sheet</u>	
Company Alfa Aesar Thermo Fisher Scientific Chemicals, Ir 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	ıc.	

**Emergency Telephone Number** During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive Toxicity

Category 2

## Label Elements

Signal Word Warning

#### **Hazard Statements**

Suspected of damaging the unborn child



#### Precautionary Statements Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required **Response** IF exposed or concerned: Get medical attention/advice **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant **Hazards not otherwise classified (HNOC)** None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
2-Ethylhexanoic acid	149-57-5	51.00
Cerium 2-ethylhexoate	56797-01-4	49.00

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and effects	None reasonably foreseeable.	
Notes to Physician	Treat symptomatically	

# 5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO $_2$ ). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Unsuitable Extinguishing Media	No information available
Flash Point	> 110 °C / > 230 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits Upper Lower	No data available No data available

# Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Cerium oxide.

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 0	Flammability 0	Instability 0	Physical hazards -
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Should not be released into the environment. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.		

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

## Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
2-Ethylhexanoic acid	TWA: 5 mg/m <sup>3</sup>			TWA: 5 mg/m <sup>3</sup>

#### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	Liquid Viscous liquid		
Appearance	No information available		
Odor	No information available		
Odor Threshold	No information available		
рН	No information available		
Melting Point/Range	No data available		
Boiling Point/Range	No information available		
Flash Point	> 110 °C / > 230 °F		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	<=1100 hPa @ 50 °C		
Vapor Density	No information available		
Specific Gravity	1.08 g/cm3		
Solubility	No information available		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	No information available		
Molecular Formula	C24 H45 CeO6		
Molecular Weight	569.74		

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Store under inert atmosphere.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Cerium oxide		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Product Information Dral LD50	Based on ATE data, the cl	assification criteria are not met. ATI	E > 2000 ma/ka.
Dermal LD50		assification criteria are not met. ATI	00
/apor LC50	Based on ATE data, the cl	assification criteria are not met. ATI	E > 20 mg/l.
Component Information			-
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Ethylhexanoic acid	LD50 = 1600 mg/kg (Rat)	LD50 = 1140 mg/kg (Rabbit)	Not listed
Cerium 2-ethylhexoate	500 (ATE)	1100 (ATE)	1.5 (ATE)
oxicologically Synergistic	No information available		
Products			
elayed and immediate effects	as well as chronic effects fron	a short and long-term exposure	

Irritation

No information available

#### Sensitization No information available Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. IARC NTP ACGIH Component CAS-No OSHA Mexico 2-Ethylhexanoic acid 149-57-5 Not listed Not listed Not listed Not listed Not listed Not listed Cerium 2-ethylhexoate 56797-01-4 Not listed Not listed Not listed Not listed **Mutagenic Effects** No information available No information available. **Reproductive Effects Developmental Effects** No information available. No information available. Teratogenicity STOT - single exposure None known STOT - repeated exposure None known No information available Aspiration hazard Symptoms / effects, both acute and No information available delayed **Endocrine Disruptor Information** No information available Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

## Ecotoxicity

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
2-Ethylhexanoic acid	EC50: = 61 mg/L, 72h (Desmodesmus subspicatus) EC50: = 41 mg/L, 96h (Desmodesmus subspicatus)	LC50: = 70 mg/L, 96h (Pimephales promelas)	EC50 = 110 mg/L 17 h EC50 = 670 mg/L 30 min	EC50: = 85.4 mg/L, 48h (Daphnia magna)

Persistence and Degradability

Immiscible with water May persist

**Bioaccumulation/ Accumulation** No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
2-Ethylhexanoic acid	2.7

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT	Not regulated	

TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15 Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
2-Ethylhexanoic acid	149-57-5	Х	ACTIVE	-
Cerium 2-ethylhexoate	56797-01-4	Х	ACTIVE	-

#### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
2-Ethylhexanoic acid	149-57-5	Х	-	205-743-6	Х	Х	Х	Х	KE-13740
Cerium 2-ethylhexoate	56797-01-4	Х	-	260-386-3	Х	Х	Х	Х	KE-13744

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Ethylhexanoic acid	-	Х	-	-	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	24-Feb-2020 24-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 2,436.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**