



Revision Date 15-Dec-2011

Revision Number 3

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier Product Description: Cat No.

Lutetium(III) chloride, anhydrous 383540000; 383540010; 383540050

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sdsdess

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16Symbol(s)Xi - IrritantR-phrase(s)noneRisk Combination PhrasesR36/37/38 - Irritating to eyes, respiratory system and skin





Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011

SECTION 2. HAZARDS IDENTIFICATION



Signal Word

Warning

Hazard Statements

H319 - Causes serious eye irritation H315 - Causes skin irritation H335 - May cause respiratory irritation

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Lutetium chloride (LuCl3) 10099-66-8	EEC No. 233- 240-1	99.9	10099-66-8	Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES





Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011

SECTION 4. FIRST AID MEASURES						
Description of first aid measures	Discontinue distance with a large of writer also we deaths available for at large (45 minutes. Obtain					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.					
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.					
Ingestion	Clean mouth with water. Get medical attention.					
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.					
Notes to Physician	Treat symptomatically					
	SECTION 5. FIRE-FIGHTING MEASURES					

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Fine dust dispersed in air may ignite.

Advice for fire-fighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

SAFETY DATA SHEET



Revision Date 15-Dec-2011

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Store under an inert atmosphere.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters This product, as supplied, does not contain any hazardous materials with occupational **Exposure limits** exposure limits established by the region specific regulatory bodies. This product, as supplied, does not contain any hazardous materials with biological limits **Biological limit values** established by the region specific regulatory bodies. **Derived No Effect Level (DNEL)** No information available. No information available. **Predicted No Effect Concentration** (PNEC) **Exposure controls Engineering Measures** Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location Personal protective equipment Eve Protection Goggles Hand Protection Protective aloves 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 No information available. Environmental exposure controls

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance pH Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Molecular Formula Powder, Solid White No information available. No information available. 905°C / 1661°F No information available. No information available. soluble Cl3 Lu

SAFETY DATA SHEET

Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight

281.33

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions. Hygroscopic.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous Reactions .

Hazardous polymerization does not occur. No information available.

Conditions to Avoid

Incompatible products, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents, Powdered metals.

Hazardous Decomposition Products

Hydrogen chloride gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity
Product Information

No acute toxicity information is available for this product

Component Information

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.



SAFETY DATA SHEET



Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011

Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information
Endocrine Disruptor Information	None known

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Do not empty into drains

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO	Not regulated
ADR	Not regulated
ΙΑΤΑ	Not regulated





Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011

SECTION 14. TRANSPORT INFORMATION

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
	233-240-1	-		Х	-	Х	-	-	-	-	Х

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R36/37/38 - Irritating to eyes, respiratory system and skin

 Revision Date
 15-Dec-2011

 Revision Summary
 Not applicable

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet



ACROS ORGANICS

Lutetium(III) chloride, anhydrous

Revision Date 15-Dec-2011