

INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Tris(N,N-Bis(trimethylsilyl)amide)cerium(III)**
Product code: EO00600
Company: INTATRADE Chemicals GmbH
Am Winkel 5
06774 Muldestausee, Germany
Phone: +49 34955 406944
Fax : +49 34955 406946
e-mail: intatrade@intatrade.de

2. HAZARDS IDENTIFICATION

Hazard designation: C Corrosive
F Highly flammable

Information pertaining to particular dangers for man and environment: R 11 Highly flammable.
R 14/15 Reacts violently with water, liberating extremely flammable gases.
R 34 Causes burns.

GHS label elements:



Danger

H261+EUH014 - In contact with water releases flammable gases.
Reacts violently with water.
H228 - Flammable solid.



Danger

Prevention: H314 - Causes severe skin burns and eye damage.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician.
Storage: P402+P404 Store in a dry place. Store in a closed container.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.: 41836-21-9

General information After inhalation	Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek immediate medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:	In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
For safety reasons unsuitable extinguishing agents:	Water
Special hazards caused by the material, its products of combustion or flue gases:	Reacts violently with water Can be released in case of fire: Carbon monoxide and carbon dioxide, Silicon oxide Nitrogen oxides (NOx), Metal oxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Keep away from ignition sources.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. HANDLING AND STORAGE

Handling Information for safe handling:	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage Requirements to be met by storerooms and containers:	Store in cool location.
Information about storage in one common storage facility:	Store away from water. Store away from oxidizing agents. Do not store together with acids.
Further information about storage conditions:	Store under dry inert gas. Protect from humidity and keep away from water. This product is moisture sensitive. Keep container tightly sealed.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require monitoring at the workplace:	Not required.
Personal protective equipment	
General protective and hygienic measures:	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
Breathing equipment:	Use breathing protection with high concentrations.
Protection of hands:	Check protective gloves prior to each use for their proper condition.
Material of gloves:	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Impervious gloves
Penetration time of glove material:	Not determined
Eye protection:	Tightly sealed safety glasses, full face protection
Body protection:	Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Powder
Colour:	Yellow
Smell:	Odourless
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Sublimation temperature/start:	Not determined
Inflammability (solid, gaseous)	Highly flammable. Contact with water liberates extremely flammable gases.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density:	Not determined
Solubility in water:	Reacts violently Contact with water releases flammable gases

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Water/moisture, oxidizing agents, acids
Dangerous reactions:	Contact with water releases flammable gases Reacts violently with water
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide, Silicon oxide, Nitrogen oxides (NO _x), Ammonia, Metal oxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

on the skin:

Corrosive effect on skin and mucous membranes.

on the eye:

Strong corrosive effect.

Sensitization:

No sensitizing effect known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

Additional ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

13. DISPOSAL CONSIDERATIONS

Product

Recommendation:

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

Uncleaned packagings

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class:

4.3 (WF2) Substances which, in contact with water, emit flammable gases.

Kemler Number:

423

UN-Number:

3396

Packaging group:

II

Label

4.3+4.1

Designation of goods:

3396 ORGANOMETALLIC SUBSTANCE, SOLID, WATER- REACTIVE, FLAMMABLE (Tris[N,Nbis(trimethylsilyl)amide]cerium(III))

Limited quantities (LQ)

LQ11

Tunnel restriction code

D/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

4.3

UN Number:

3396

Label

4.3+4.1

Packaging group:

II

Marine pollutant:

No

Correct technical name:

ORGANOMETALLIC SUBSTANCE, SOLID, WATER- REACTIVE, FLAMMABLE (Tris[N,N-bis(trimethylsilyl)amide]cerium(III))

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

4.3

UN/ID Number:

3396

Correct technical name: ORGANOMETALLIC SUBSTANCE, SOLID, WATER- REACTIVE, FLAMMABLE (Tris[N,N-bis(trimethylsilyl)amide]cerium(III))

UN "Model Regulation": UN3396, ORGANOMETALLIC SUBSTANCE, SOLID, WATER- REACTIVE, FLAMMABLE, 4.3 (4.1), II

15. REGULATORY INFORMATION

Designation according to EC guidelines:

Code letter and hazard C Corrosive

designation of product: F Highly flammable

Risk phrases: 11 Highly flammable.

14/15 Reacts violently with water, liberating extremely flammable gases.

34 Causes burns.

Safety phrases: 7/8 Keep container tightly closed and dry.

16 Keep away from sources of ignition - No smoking.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Information about limitation of use: For use only by technically qualified individuals.

Employment restrictions concerning young persons must be observed.

Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.