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

1.1 Product identifier
Product Identifier: Cinacalcet Hydrochloride
Product Number: C242
CAS Number: [364782-34-3]
EC Number: [620-490-5]
REACH Registration Number: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Uses: For research use only - restricted to professional users.
Uses Advised Against: Not for human or animal use

1.3 Details of the supplier of the safety data sheet
Company: TOKU-E Company
715 W Orchard Dr. Suite 3
Bellingham, WA 98225
Phone Number: (360) 734-1789
E-mail Address: info@toku-e.com
Safety Data Sheet Issued by: TOKU-E Company (USA)

1.4 Emergency telephone number
Emergency Phone Number (Internat.): +1 (352) 353-3500 (INFOTRAC, 24-Hour Number)
Emergency Phone Number (US Only): 1 (800) 535-5053 (INFOTRAC, 24-Hour Number)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
Skin Sensitisation (Category 1), H317
Serious Eye Damage/Eye Irritation (Category 1), H318
Specific Target Organ Toxicity - Repeated Exposure (Category 2), H373 (Cecum and Eyes) (Oral)
Hazardous to the Aquatic Environment - Acute (Category 1), H400
Hazardous to the Aquatic Environment - Chronic (Category 1), H410

For the full text of the H-Statements mentioned in this section, see Section 16.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008
Hazard Pictogram(s):

Signal Word: Danger
Hazard Statement(s)
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/soap
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment, see applicable response statements on this label
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with governmental regulation
P305+P351+ P362+P364 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P273 Avoid release to the environment.
P391 Collect spillage.

Supplemental Hazard Information
No data available

2.3 Other hazards
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonym(s) : 1-Naphthalenemethanamine, α-methyl-N-(3-(3-(trifluoromethyl)phenyl)propyl)-, (αR)-, hydrochloride; AMG 073; KRN 1493
Formula : C_{22}H_{22}F_{3}N • HCl
Molecular weight : 393.87 g/mol

Hazardous ingredients according to Regulation (EC) No. 1272/2008

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cinacalcet Hydrochloride</td>
<td>Skin Sens. 1, H317</td>
<td>≤ 100%</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT RE 2, H373 (Cecum, eyes) (Oral)</td>
<td></td>
</tr>
<tr>
<td>CAS Number [364782-34-3]</td>
<td>Aquatic Acute 1, H400</td>
<td></td>
</tr>
<tr>
<td>EC Number [620-490-5]</td>
<td>Aquatic Chronic 1, H410</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General information
Consult a doctor/physician if exposed - additional medical care may be required. Show this safety data sheet to the medical provider.

If inhaled
If inhaled, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash skin thoroughly with soap and water. Remove any contaminated clothing. Consult a physician.

In case of eye contact
Flush eye with water. After initial flush, remove any contact lenses and continue flushing for at least 15 minutes.

If swallowed
Rinse mouth with water. Immediately call a doctor, physician, or poison control center. Never give anything by mouth to an unconscious person.

Self-protection of the first aider
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent the spread of contamination.

4.2 Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguising media
No data available

5.2 Special hazards arising from the substance or mixture
Hazardous Combustion Products
Carbon and nitrogen oxides, hydrogen chloride, hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Consult the safety measures listed in Section 7 and 8. Use personal protective equipment. Avoid breathing dust, vapors, mist or gas. Avoid direct contact with spilled substances. Ensure adequate ventilation. Avoid dust formation. For personal protection see Section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
Refer to section 8 for exposure control and personal protection. Refer to section 13 for disposal information.
SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Avoid contact with skin and eyes.
For precautionary statements see section 2.2

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Protect from humidity.
Recommended storage temperature: -20 °C

Incompatibilities:
Strong oxidizing agents

7.3 Specific end use(s)
Refer to section 1.2

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters:
No OEL data available

8.2 Exposure controls
Appropriate engineering controls:
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling this product.

Personal Protective Equipment (PPE):

Respiratory protection
Wear respiratory protection. Use type N95 (US) or type P1 (EN 143) dust masks as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the selected EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use. It should not be construed as offering an approval for any specific use scenario.

Eye/face protection
Wear eye protection. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body protection
Wear protective clothing. The type of protective equipment must be selected according to the concentration of the dangerous substance at the specific work place.

Environmental exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White to off-white solid
Odor: No data available
Odor Threshold: No data available
pH: No data available
Melting Point/Freezing Point: No data available
Initial Boiling Point and Range: No data available
Flash Point: No data available
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper/Lower Flammability or Explosive Limits: No data available
Vapour Pressure: No data available
Vapour Density: No data available
Relative Density: No data available
Solubility(ies): Slightly soluble in ethanol, methanol, DMF and DMSO
Partition Coefficient: n-octanol/water: No data available
Auto-Ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Explosive Properties: No data available
Oxidising Properties: No data available

9.2 Other information
No additional information relevant to safe use of the substance.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
No data available

See Section 5 for hazardous combustion products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity
No data available

Skin Corrosion/Irritation
No data available
Serious Eye Damage/ Eye Irritation
No data available

Respiratory or Skin Sensitisation
No data available

Germ Cell Mutagenicity
No data available

Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by the International Agency for Research on Cancer Monograph.

Reproductive Toxicity
No data available

Specific Target Organ Toxicity: Single Exposure
No data available

Specific Target Organ Toxicity: Repeated Exposure
No data available

Aspiration Hazard
No data available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.

In the absence of complete ecological information, treat product as environmentally hazardous. Use proper storage, handling, and disposal to prevent unintentional release into the environment.
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

**Product**
Offer surplus and non-recyclable products to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid disposal of material in drains or sewers. Waste material must be disposed of in accordance with the Directive on Waste 2008/98/EC as well as other national and local regulations.

**Contaminated Packaging**
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
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</thead>
<tbody>
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<td>3077</td>
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<tr>
<td>UN Proper Shipping Name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cinacalcet Hydrochloride)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cinacalcet Hydrochloride)</td>
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<tr>
<td>Transport Hazard Class(es)</td>
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<tr>
<td>Packing Group</td>
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<td>III</td>
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<tr>
<td>Environmental Hazards</td>
<td>Yes</td>
<td>Marine Pollutant: Yes</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

**Further Information**
When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantities code of E1, E2, E4 or E5, this meets the De Minimus Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Authorizations and/or restrictions on use**
Restricted to professional users.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.
SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H317  May cause an allergic skin reaction
H318  Causes serious eye damage
H373  May cause damage to organs through prolonged or repeated exposure
H400  Very toxic to aquatic life
H410  Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Road (ADR) and Rail (RID)
CAS No: Chemical Abstracts Service number
EC: European Commission
EC No: European Commission number
EHS: Environmentally Hazardous Substance
EU: European Union
H-Statement: Hazard Statement
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IBC: International Bulk Chemical
IMDG: International Maritime Dangerous Goods Code
LC50: Lethal concentration, 50%
LD50: Median Lethal dose
MARPOL 73/78: International Convention for the Prevention of Pollution from Ships
NIO SH: National Institute for Occupation Safety and Health
OEL: Occupational Exposure Limit
PBT: Persistent, Bioaccumulative and Toxic
REACH: Registration, Evaluation, Authorisation and restrictions of Chemicals
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
UN: United Nations
vPvB: Very Persistent and Very Bioaccumulative

Further information

Revision Date: 2019-04-03

The above information is based upon the present state of our knowledge and is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information is believed to be correct but does not purport to be all inclusive. It does not represent any guarantees of the properties of the product. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of the above product.