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

1.1 Product Identifier
Chemical Name: Amiodarone Hydrochloride

Catalogue #: A632950

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
Product Uses: To be used only for scientific research and development. Not for use in humans or animals.

1.3 Details of the Supplier of the Safety Data Sheet
Company: Toronto Research Chemicals
2 Brisbane Road
Toronto, ON M3J 2J8
Canada

Telephone: +14166659696
FAX: +14166654439
Email: orders@trc-canada.com

1.4 Emergency Telephone Number
Emergency#: +1(416) 665-9696 between 0800-1700 (GMT-5)

2. HAZARDS IDENTIFICATION

2.1/2.2 Classification of the Substance or Mixture and Label Elements
GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)
- Acute Toxicity, Dermal (Category 4)
- Acute Toxicity, Inhalation (Category 4)
- Acute Toxicity, Oral (Category 5)
- Eye Damage/Irritation (Category 2A)
- Skin Irritation (Category 2)
- Reproductive Toxicity (Category 2)
- Hazardous to the Aquatic Environment, Acute Hazard (Category 1)
- Hazardous to the Aquatic Environment, Long-Term Hazard (Category 1)

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word: Warning

GHS Hazard Statements
- H312: Harmful in contact with skin.
- H332: Harmful if inhaled.
- H303: May be harmful if swallowed.
- H319: Causes serious eye irritation.
- H315: Causes skin irritation.
- H361: Suspected of damaging fertility or the unborn child.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Molecular Formula: C_{25}H_{30}ClI_2NO_3  
Molecular Weight: 681.77
CAS Registry #: 19774-82-4  
EC#: 243-293-2
Synonyms
(2-Butyl-3-benzofuranyl)[4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl]methanone Hydrochloride; 4-[2-(Diethylamino)ethoxy]-3,5-diiodophenyl 2-butyl-3-benzofuranyl Ketone Hydrochloride; Amiodar; Amiodaronum Hydrochloride; Ancoron; Angiodarona; Atlansil; Cordarex; Cordarone; Cordarone X; L 3428; L 3428-Labaz; Miocard; Miodaron; Ortacrone; Pacerone; Ritmocardyl; Rythmarone; SKF 33134A; Trangorex;

3.2 Mixtures
Not a mixture.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice
If medical attention is required, show this safety data sheet to the doctor.

If Inhaled
If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact
Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye Contact
Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed
No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture
5.3 Advice for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information
No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method 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.

7. HANDLING AND STORAGE

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

7.2 Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Storage conditions: -20°C Freezer

7.3 Specific End Uses
For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Contains no components with established occupation exposure limits.

8.2 Exposure Controls

Appropriate Engineering Controls
A laboratory fume hood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection
Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as “chemical resistant” by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.
Penetration time has not been determined.
Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material.
Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

**Body Protection**
Fire resistant (Nomex) lab coat or coveralls.

**Respiratory Protection**
Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>9.1 Information on Basic Physical and Chemical Properties</th>
</tr>
</thead>
</table>
| **A)** Appearance  
  White Solid  
  **C)** Odour Threshold  
  No data available  
  **E)** Melting Point/Freezing Point  
  154-158°C  
  **G)** Flash point  
  No data available  
  **I)** Flammability (Solid/Gas)  
  No data available  
  **K)** Vapour Pressure  
  No data available  
  **M)** Relative Density  
  No data available  
  **O)** Partition Coefficient: n-octanol/water  
  No data available  
  **Q)** Decomposition Temperature  
  No data available  
  **S)** Explosive Properties  
  No data available  
  **B)** Odour  
  No data available  
  **D)** pH  
  No data available  
  **F)** Initial Boiling Point/Boiling Range  
  No data available  
  **H)** Evaporation Rate  
  No data available  
  **J)** Upper/Lower Flammability/Explosive Limits  
  No data available  
  **L)** Vapour Density  
  No data available  
  **N)** Solubility  
  Chloroform (Slightly), Methanol (Slightly)  
  **P)** Auto-Ignition Temperature  
  No data available  
  **R)** Viscosity  
  No data available  
  **T)** Oxidizing Properties  
  No data available |

### 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**  
  In the event of fire: See section 5. Other decomposition products: No data available. |

### 11. TOXICOLOGICAL INFORMATION
11.1 Information on Toxicological Effects

A) Acute Toxicity
- Oral LD50: Rat -> 3,000 mg/kg
- Inhalation LC50: No data available.
- Dermal LD50: No data available.

B) Skin Corrosion/Irritation
- No data available

C) Serious Eye Damage/Irritation
- No data available

D) Respiratory or Skin Sensitization
- No data available

E) Germ Cell Mutagenicity
- No data available

F) Carcinogenicity
- No data available

G) Reproductive Toxicity/Teratogenicity
- Limited laboratory results have shown reproductive toxicity/teratogenicity in animal models.

H) Single Target Organ Toxicity - Single Exposure
- No data available

I) Single Target Organ Toxicity - Repeated Exposure
- No data available

J) Aspiration Hazard
- No data available

K) Potential Health Effects and Routes of Exposure
- Inhalation
  - Harmful if inhaled. May cause respiratory tract irritation.
- Ingestion
  - May be harmful if swallowed.
- Skin
  - Harmful if absorbed through skin. May cause skin irritation.
- Eyes
  - Causes severe eye irritation.

L) Signs and Symptoms of Exposure
- The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

M) Additional Information
- RTECS: OB1361000

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
- No data available.

12.6 Other Adverse Effects
- No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods
A) Product
Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

B) Contaminated Packaging
Dispose of as above.

C) Other Considerations

14. TRANSPORT INFORMATION

14.1 UN Number
DOT (US): UN3077  IATA: UN3077  IMDG: UN3077  ADR/RID: UN3077

14.2 UN Proper Shipping Name
DOT (US)/IATA:
Environmentally hazardous substance, solid, n.o.s. (Amiodarone hydrochloride)
IMDG/ADR/RID:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Amiodarone hydrochloride)

14.3 Transport Hazard Class(es)
DOT (US): 9  IATA: 9  IMDG: 9  ADR/RID: 9

14.4 Packing Group

14.5 Environmental Hazards
DOT (US): None  IATA: None  IMDG: Marine pollutant  ADR/RID: None

14.6 Special Precautions for User
None

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

A) Canada
DSL/NDSL Status: This product or a component of this product is registered on the Canadian DSL/NDSL.

B) United States
TSCA Status: This product is not listed on the US EPA TSCA.

C) European Union
ECHA Status: This product is not registered with the EU ECHA.

15.2 Chemical Safety Assessment
No data available

16. OTHER INFORMATION

16.1 Revision History
Original Publication Date: 5/27/2013

16.2 List of Abbreviations
LD50  Median lethal dose of a substance required to kill 50% of a test population.
LC50  Median lethal concentration of a substance required to kill 50% of a test population.
LDLo  Lowest known lethal dose
TDLo  Lowest known toxic dose
IARC  International Agency for Research on Cancer
NTP  National Toxicology Program

16.3 Further Information
Copyright 2015. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.