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

1.1 Product Identifier
Chemical Name: Amphetaminil
Catalogue #: A634285

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#: +14166659696 between 0800-1700 (GMT-5)

2. HAZARDS IDENTIFICATION

WHMIS Classification (Canada)
D1A Very Toxic Material Causing Immediate and Serious Toxic Effects
  Toxic by Ingestion

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, Oral (Category 2)

EU Classification (According to EU Regulation 67/548/EEC)
Very toxic if swallowed.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)
Hazard Statements

<table>
<thead>
<tr>
<th>Hazard Statements</th>
<th>Hazard Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Toxic</td>
<td>T+</td>
</tr>
</tbody>
</table>

Risk Codes and Phrases
R28 Very toxic if swallowed.

Safety Precaution Codes and Phrases
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

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

GHS Hazard Statements
H300 Fatal if swallowed.
2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Molecular Formula: C_{17}H_{18}N_{2}  Molecular Weight: 250.34
CAS Registry #: 17590-01-1  EC#: 241-560-8
Synonyms
\( \alpha-[(1\text{-Methyl}-2\text{-phenylethyl})\text{amino}]\text{benzeneacetonitrile} \); N-(\( \alpha-\text{Methylphenethyl}-2\text{-phenylglycinonitrile} \); AN 1; Amfetaminil; Apongeun; N-(\( \beta\text{-Phenylisopropyl})\alpha-\text{aminophenylacetonitrile} \); NSC 67172; dl-Amphetaminil; \( \alpha\text{-Phenyl-}\alpha-(1\text{-phenylisopropyl})\text{aminoacetonitrile} \); \( \alpha\text{-Phenyl-}\alpha-N-(1\text{-phenylisopropyl})\text{aminoacetonitrile} \);

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 casualty 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
No data available

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

5. FIREFIGHTING MEASURES

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

5.2 Special Hazards Arising from the Substance or Mixture
Carbon oxides, Nitrogen oxides

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures
Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.
6.2 Environmental Precautions
Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

6.3 Methods and Materials for Containment and Cleaning Up
Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

For protective equipment, refer to Section 8. For disposal, see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling
Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

7.2 Conditions for Safe Storage, Including any Incompatibilities
Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10).

Storage conditions: Controlled Substance, -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 occupational exposure limits.

8.2 Exposure Controls
Appropriate Engineering Controls
A laboratory fumehood 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) coveralls or chemical-resistant bodysuit (laminated Tychem SL or equivalent).

**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 protection, a full-face supplied air respirator must be used.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>A) Appearance</th>
<th>B) Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>White to Off-White Solid</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C) Odour Threshold</th>
<th>D) pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E) Melting Point/Freezing Point</th>
<th>F) Initial Boiling Point/Boiling Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>81-85°C</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>G) Flash point</th>
<th>H) Evaporation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I) Flammability (Solid/Gas)</th>
<th>J) Upper/Lower Flammability/Explosive Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K) Vapour Pressure</th>
<th>L) Vapour Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M) Relative Density</th>
<th>N) Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>Chloroform, Methanol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O) Partition Coefficient: n-octanol/water</th>
<th>P) Auto-Ignition Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q) Decomposition Temperature</th>
<th>R) Viscosity</th>
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</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S) Explosive Properties</th>
<th>T) Oxidizing Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2 Other Information

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

No data available

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

<table>
<thead>
<tr>
<th>A) Acute Toxicity</th>
<th>B) Skin Corrosion/Irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 (oral - rat) 37.6 mg/kg</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C) Serious Eye Damage/Irritation</th>
<th>D) Respiratory or Skin Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

This Safety Data Sheet contains 16 sections. All 16 sections must be present for this document to be valid.
E) Germ Cell Mutagenicity
No data available

F) Carcinogenicity
No data available

G) Reproductive Toxicity/Teratogenicity
No data available

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
   May be harmful if inhaled. May cause respiratory tract irritation.
   Ingestion
   May be fatal if swallowed.
   Skin
   May be harmful if absorbed through skin. May cause skin irritation.
   Eyes
   May cause eye irritation.

L) Signs and Symptoms of Exposure
No data available

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

M) Additional Information
   RTECS: AM1050000

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
   Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

14.1 UN Number
**14.2 UN Proper Shipping Name**
DOT (US)/IATA: Toxic solids, organic, n.o.s. (Amphetaminil)
IMDG/ARD/RID: TOXIC SOLID, ORGANIC, N.O.S. (Amphetaminil)

**14.3 Transport Hazard Class(es)**

**14.4 Packing Group**
DOT (US): II IATA: II IMDG: II ADR/RID: II

**14.5 Environmental Hazards**
DOT (US): None IATA: None IMDG: None 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 is not listed 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: 7/24/2014

**16.2 List of Abbreviations**
LD50 Medical lethal dose of a substance required to kill 50% of a test population.
LC50 Medial 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
RTECS Registry of Toxic Effects of Chemical Substances

**16.3 Further Information**
Copyright 2013. 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.