1. PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name**  Nomifensine-d3 Maleic Acid Salt

**Catalogue #**  N635952

**Company**  Toronto Research Chemicals  
2 Brisbane Road  
Toronto, ON M3J 2J8  
CANADA

**Telephone**  +14166659696  
**FAX**  +14166654439  
**Emergency#**  +14166659696  
**Email**  orders@trc-canada.com

2. HAZARDS IDENTIFICATION

**WHMIS Classification**

| D1B | Toxic Material Causing Immediate and Serious Toxic Effects |
| D2B | Toxic by ingestion  
      | Moderate skin irritant  
      | Moderate respiratory irritant  
      | Moderate eye irritant |

**HMIS Classification**

| Health hazard: | 2 |
| Flammability: | 0 |
| Physical hazards: | 0 |

**Potential Health Effects**

**Inhalation**  May be harmful if inhaled. Causes respiratory tract irritation.

**Skin**  May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**  Causes eye irritation.

**Ingestion**  Harmful if swallowed.

**GHS Classification**

Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity - single exposure, respiratory tract (Category 3)

**GHS Label elements, including precautionary statements**

**Signal word**  Warning

**Hazard statement**

H302  Harmful if swallowed.

H315  Causes skin irritation.

H319  Causes serious eye irritation.

H335  May cause respiratory irritation.

**Precautionary statements**

P261  Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P301/P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302/P352  IF ON SKIN: Gently wash with plenty of soap and water.

P305/P351/P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501  Dispose of contents/ container to an approved waste disposal plant.

**GHS Label Pictogram**

Toronto Research Chemicals - N635952
3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: \( \text{C}_{20}\text{H}_{19}\text{D}_3\text{N}_2\text{O}_4 \)

Molecular Weight: 357.42

CAS Registry #: 

EC#: 1,2,3,4-Tetrahydro-2-(methyl-d3)-4-phenyl-8-isoquinolinamine \( (Z) \)-2-Butenedioate; (\( Z \)-8-Amino-1,2,3,4-tetrahydro-2-(methyl-d3)-4-phenylisoquinoline \( (Z) \)-2-Butenedioate; (\( ± \))-Nomifensine-d3 Hydrogen Maleate; Alival-d3; HOE 984-d3;

Synonyms: Hostival-d3; Merital-d3; NSC 289114-d3; Neurolene-d3; Nomifensine-d3 Hydrogen Maleate; Nomifensine-d3 Maleate; Psicronizer-d3;

4. FIRST AID MEASURES

General Advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Toronto Research Chemicals - N635952
7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Store at 2-8°C under inert atmosphere.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limits values.

Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Specific engineering controls
Use mechanical exhaust or laboratory fume hood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Pale yellow solid

Safety data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>pH</td>
<td>N/A</td>
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<tr>
<td>Boiling point</td>
<td>N/A</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>N/A</td>
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<tr>
<td>Density</td>
<td>N/A</td>
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<tr>
<td>Melting point</td>
<td>188-191°C</td>
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<tr>
<td>Flash point</td>
<td>N/A</td>
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<tr>
<td>Lower explosion limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>N/A</td>
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<tr>
<td>Water solubility</td>
<td>N/A</td>
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</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
no data available

Materials to avoid
Strong oxidizing agents.

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Toronto Research Chemicals - N635952
12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative potential</th>
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<tbody>
<tr>
<td>no data available</td>
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<thead>
<tr>
<th>Mobility in soil</th>
<th>PBT and vPvB assessment</th>
<th>Other adverse effects</th>
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<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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13. DISPOSAL CONSIDERATIONS

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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

14. TRANSPORT INFORMATION

**DOT (US)/IMDG/IATA**
not dangerous goods

15. REGULATORY INFORMATION

**DSL Status**
Product is not on the Canadian DSL or NDSL list.

**WHMIS Classification**
D1B   Toxic Material Causing Immediate and Serious Toxic Effects   Toxic by ingestion
D2B   Moderate skin irritant
      Moderate respiratory irritant
      Moderate eye irritant

16. OTHER INFORMATION

**Further information**
Copyright 2010 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 it is not to be deemed as all-inclusive and is to be used only 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.