



NEWMIND  
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## CERTIFICATE OF ANALYSIS

### Bromantane

(N-(4-Bromophenyl)Admantan-2-Amine)

Material Lot# 20180430 Manufacture Date: 04/30/2018  
Country of Origin: China Retesting Date: 04/29/2021

Analysis	Claim	Result
Assay	≥99%	99.53%

Test	Claim	Result
Appearance	White Crystalline Powder	Complies
Color	White	Complies
Odor & Taste	Characteristic	Complies
Identification	Retention time conforms with standard	Complies
Solubility	Soluble in DMSO, Methanol, and Ethanol	Complies

Impurity Test	Claim	Result
Loss on Drying	≤1.0%	0.45%
Melting Point	106-108°C	106-107°C
Residue on Ignition	≤0.5%	0.12%
Heavy Metals	≤20 ppm	Complies
Total Impurities	≤1%	0.47%

Conforms to enterprise standard

Bromantane should be stored at or below room temperature in a tightly sealed durable container.  
Bromantane should be protected from excess heat, direct sunlight, excess humidity and moisture.  
Bromantane has a stable shelf life of 3 years from the date of testing when properly stored

### Safety Data Sheet

Trade name: Bromantane  
Product No: NMBROMA98  
Version: 1 / EN

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier:

Chemical name N-(2-Adamantyl)-N-(4-bromophenyl)amine;  
Trade name Bromantane  
Product # NMBROMA98  
CAS No 87913-26-6

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Uses:  
To be used only for scientific research and development.

Uses advised against:  
Not for use in humans or animals.

##### 1.3 Details of the supplier of the safety data sheet:

Supplier: NewMind  
Name: Synaptent LLC  
Address: 47 W Polk St #100-241  
Chicago, IL 60605  
Information contact: +1 888-679-6278  
E-Mail: synaptent@synaptent.com

##### 1.4 EMERGENCY TELEPHONE NUMBER:

Emergency# +1 888-679-6278 between 0900-1800 (UTC-6)

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP) and US OSHA 1910.1200  
Reproductive Toxicity (Category 2)

Additional information:  
WHMIS Classification D2A, EU Classification R63 S53 S45

##### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 and US OSHA 1910.1200




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## CERTIFICATE OF ANALYSIS

Product Name	Bromantane	Product Lot Number	20180430
Report Date	05/25/18	Laboratory Number	10275

Test	Method	Result
Identification	HPLC	Positive
Assay	HPLC	98.9%
Lead	ICP-MS USP <730>	0.018 ppm
Arsenic	ICP-MS USP <730>	0.051 ppm
Cadmium	ICP-MS USP <730>	0.002 ppm
Mercury	ICP-MS USP <730>	0.027 ppm

Collin Thomas   
Laboratory Manager

05/25/2018 5/25/18  
Date

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#### Hazard pictograms



Signal word:  
Warning

Hazard statements:  
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:  
P201 Obtain special instructions before use.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

#### 2.3 Other hazards

No Data Available

#### SECTION 3. Composition/information on ingredients

##### Substances

Chemical name: N-(4-Bromophenyl)tricyclo[3.3.1.1.3.1.13.7]decan-2-amine;  
Trade name: Bromantane  
Molecular Formula: C<sub>16</sub>H<sub>20</sub>BrN  
CAS No: 87913-26-6  
EC No:

Purity: 98%  
Synonyms: N-(2-Adamantyl)-N-(4-bromophenyl)amine;

##### 3.2 Mixtures

not applicable

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

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

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

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**Following skin contact:**  
Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

**Following eye contact:**  
Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

**Following ingestion:**  
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.

### Self-protection of the first aider:

No data available.

### 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.

## SECTION 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, Hydrogen bromide

### 5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Additional information

No data available.

## SECTION 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.

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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 / Hand protection:

#### Hand 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.

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.

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

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

A) Appearance Off-White Solid	B) Odor No data available
C) Odor Threshold No data available	D) pH No data available
E) Melting Point/Freezing Point 105-107 °C	F) Initial Boiling Point/Boiling Range No data available
G) Flash point No data available	H) Evaporation Rate No data available

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### 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 material 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.

## SECTION 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

#### Aerosol and dust generation prevention

Provide appropriate exhaust ventilation at places where dust is formed.

### 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).

### 7.3 Specific end uses

For scientific research and development only. Not for use in humans or animals.

## SECTION 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

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I) Flammability (Solid/Gas) No data available	J) Upper/Lower Flammability/Explosive Limits No data available
K) Vapor Pressure No data available	L) Vapor Density No data available
M) Relative Density No data available	N) Solubility Chloroform (Slightly), Ethyl Acetate (Slightly), Methanol (Slightly)
O) Partition Coefficient No data available	P) Auto-Ignition Temperature No data available
Q) Decomposition Temperature No data available	R) Viscosity No data available
S) Explosive Properties No data available	T) Oxidizing Properties No data available

### 9.2 Other information:

No data available

## 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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

	Effect dose / concentration	Value	Species	Method	Symptoms / delayed effects	Remark
Acute oral toxicity	No data available					
Acute dermal toxicity	No data available					

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Acute inhalative toxicity (gas)	No data available					
Acute inhalative toxicity (vapour)	No data available					
Acute inhalative toxicity (dust/mist)	No data available					

**Skin corrosion/irritation**  
No data available

**Eye damage/irritation**  
No data available

**Sensitisation to the respiratory tract/skin**  
No data available

**Sensitisation to the respiratory tract**  
No data available

**Skin sensitisation**  
No data available

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No data available

**Aspiration hazard**  
No data available

**Reproductive Toxicity/Teratogenicity**  
Laboratory results have shown reproductive toxicity/teratogenicity in animal models

### Potential health effects and routes of exposure

**Inhalation:**  
May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:**  
May be harmful if swallowed.

**Skin:**  
May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:**  
May cause eye irritation.

**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.

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### 14.6 Special precautions for user

None

### SECTION 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

### SECTION 16: Other information

#### 16.1 Indication of changes

Original Publication Date: 2/8/2018

#### 16.2 Abbreviations and acronyms

LD50 Median 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

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.

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### 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

No data available.

#### 12.6 Other adverse effects:

No data available.

### SECTION 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.

### SECTION 14: Transport information

	Land transport (DOT)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	N/A	N/A	N/A	N/A
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	N/A	N/A	N/A	N/A
Hazard label(s)				
14.4 Packing group	N/A	N/A	N/A	N/A
14.5 Environmental hazards	None	None	None	None

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