



Safety Data Sheet

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1. IDENTIFICATION	
Product: Adamantane P/N: 970489.901	MSDS #: 901167.001
Product Use: For laboratory use only.	Date: Rev C, December 27, 2012

2. HAZARDS IDENTIFICATION:
 Not classified as hazardous per GHS; not listed in Table 3.1 Annex VI of regulation 1272/2008/EU, as amended. The product is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use. The product is not dangerous according to the criteria set by the European Union (EU).

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. However adamantane may be irritating. Use only as directed and in accordance with safe laboratory practices.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Adamantane	281-23-2	206-001-4	>99	15 mg/m ³ Particulates not otherwise regulated	10 mg/m ³ Inhalable particles: PNOS	NA

Notes: Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit). PNOS: Particles Not Otherwise Specified. Product is a vial containing 0.5 gm of adamantane crystals for use in calibration.

4. FIRST AID MEASURES:

Inhalation: Remove to fresh air.
 Skin Contact: Flush with water.
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Combustible.
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
 Unique Aspects Contributing To a Fire: None.
 Special Fire Fighting Procedures: None.
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Sweep up and place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved particulate respirator.
 Eye Protection: Safety glasses with side protection.
 Skin Protection: No special requirements. Disposable nitrile are acceptable for light intermittent exposure.
 Engineering Controls: No special requirements. Work in a fume hood or use general or other local exhaust ventilation to meet Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Beige crystalline powder

Physical State: Solid	Flash Point: NA	Vapor Pressure: NA
Odor: None	Explosion Limits: NA	Vapor Density (air=1): 4.7
pH: NA	Boiling Point: NA	Solubility in Water: Insoluble
Specific Gravity: 1.07	Melting Point: 516 - 518 °F (269 – 271 °C) (sublimates)	Other: NA

10. STABILITY AND REACTIVITY:Hazardous Polymerization Will Not Occur May Occur

Stability: Stable

Hazardous Decomposition/Combustion Products:

Oxides of carbon

Conditions & Materials to Avoid:

Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION:

Primary Route(s) of Exposure under Normal Use: Inhalation.

Target Organ(s): NA

Acute Effects: May be irritating to eyes or skin. Oral,rat: LD50:>10gm/kg

Chronic Effects: NA

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

12. ECOLOGICAL INFORMATION: Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.285 mg/l - 96 h.**13. DISPOSAL CONSIDERATIONS:** Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.**14. TRANSPORT INFORMATION:** Not Dangerous Goods. Not Regulated.**IATA/ICAO:** Shipping Name: NA

Hazard Class: NA

UN/NA #: NA

Packing Group #: NA

IMDG: NA

ADR: NA

15. REGULATORY INFORMATION:**U.S. TOSCA:** Listed**Canada:** This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.**16. OTHER INFORMATION:****U.S. EPA****National Fire Protection Association Rating****SARA 313 Chemicals****CERCLA RQ**

4=Severe Hazard

HEALTH

NA

None

None

3=Serious Hazard

FLAMMABILITY

NA

2=Moderate Hazard

REACTIVITY

NA

1=Slight Hazard

OTHER

NA

0=Minimal Hazard

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC: European Commission

EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

NA: Not Available.

OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.

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