

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** 4-Bromo-9,9-dimethylfluoren  
**Synonyms:** 4-Bromo-9,9-dimethyl-9H-fluorene  
**Formula:** C<sub>15</sub>H<sub>13</sub>Br  
**Supplier:** Watson International Ltd  
**Telephone No:** 86-512-81867280  
**Fax No:** 86-512-81867270

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	4-Bromo-9,9-dimethylfluoren

No.	CAS No.	R Phrases	Concentration	Classification
1.	942615-32-9	R36/38 -	97% (w/w)	Xi
2.				
3.				

**Legend:** Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidizing, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

### 3. HAZARDS IDENTIFICATION

**Human Hazard:** Irritating to the skin, eyes and respiratory tract.  
Harmful if inhaled or swallowed.  
**Environment:** Harmful to aquatic organisms.

### 4. FIRST-AID MEASURES

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

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

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Medical Information:** No specific antidote known. Treat symptomatically. For further and specialist information doctors should contact the nearest **Poisons Information Centre**.

### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
<b>Environmental Precautions:</b>	Do not let product enter drains
<b>Methods for Cleaning Up:</b>	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Precautions:</b>	<b>Respiratory protection</b> Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) <b>Hand protection</b> Handle with gloves <b>Eye protection</b> Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). <b>Skin and body protection</b> Choose body protection according to the amount and concentration of the dangerous substance at the work place. <b>Hygiene measures</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Occupational Exposure Limits:</b>	None assigned.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	powder
<b>Colour:</b>	Off-white
<b>pH:</b>	No information
<b>density:</b>	1.346±0.06 g/cm3
<b>Auto flammability:</b>	No information
<b>Lower explosion limit:</b>	No information

Upper explosion limit: No information

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## 10. STABILITY AND REACTIVITY

**Storage stability:** Stable under recommended storage conditions.

**Materials to Avoid:** Strong oxidizing agents

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

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## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** no data available

**Irritation:** no data available

**Sensitization:** no data available

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## 12. ECOLOGICAL INFORMATION

**Mobility:** No information

**Degradability:** No information

**Accumulation:** No information

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## 13. DISPOSAL CONSIDERATIONS

**Product:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. I.

**Containers:** Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

**Special Transport Precautions:** None

**DOT/ IMDG/ IATA/ ADR:** Not dangerous goods

Hazard Class : no

UN Number : no

Packing Group : no

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## 15. REGULATORY INFORMATION

### OSHA Hazards

Irritant

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists

	CAS NO.
4-Bromo-9,9-dimethylfluoren	942615-32-9

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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## 16. OTHER INFORMATION

Packing:

Package: 1kg / bag or as per request.

Revision:

Date Prepared: 23/9/2013

# WATSON International Ltd

Website: [www.watson-int.com](http://www.watson-int.com); Email: [contact@watson-int.com](mailto:contact@watson-int.com)

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