# AK Scientific, Inc.

Safety Data Sheet (United States) 4-Bromo-2,5-difluoroaniline

1.Identification	
Product name:	4-Bromo-2,5-difluoroaniline
Catalog#:	N683
IUPAC name:	4-Bromo-2,5-difluoroaniline
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	:: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

# 2.Hazard Identification:

### **GHS Classification (United States)**

Acute toxicity, Oral (Category 3) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3), Respiratory system

# Pictogram(s)



## Signal word:

Danger

#### Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### **Precautionary statement(s):**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a poison center or doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for
	breathing.
P305+P351+P338	FIF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
P312	Call a poison center or doctor if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
D261	Take off contaminated elething and weak before revea

P362 Take off contaminated clothing and wash before reuse.

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

# Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3.Composition/Information on	Ingredients
Synonyms:	Not available.
ĊAS#:	112279-60-4
Purity:	98% (HPLC)
EC:	Not available.

#### 4. First Aid Measures

**General Information:** Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

**Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

**Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

**Ingestion:** Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

**Most important symptoms and effects, both acute and delayed:** No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

#### 5. Fire Fighting Measures

**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. **Specific hazards arising from the chemical:** Carbon oxides, Hydrogen bromide, Hydrogen fluoride, Nitrogen oxides.

**Advice for firefighters:** As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

**Methods and materials for containment and cleaning up:** Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

#### 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

**Conditions for safe storage, including any incompatibilities:** Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition.

## 8. Exposure Controls/Personal Protection

#### **Exposure limits:**

OSHA PEL:	Not available.
NIOSH REL:	Not available.
ACGIH TLV:	Not available.

**Appropriate engineering controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

#### **Personal protection**

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9. Physical and Chemical Properties	
Physical State:	Beige crystals or crystalline powder
Molecular Formula:	C6H4BrF2N
Molecular Weight:	208
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	76-80°C
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.

Relative Density:	
Refractive Index:	
Volatility:	
Auto-ignition Temperature:	
Decomposition Temperature:	
Partition Coefficient:	

#### 10. Stability and Reactivity

Reactivity:
Chemical stability:
Possibility of hazardous reactions:
Conditions to avoid:
Incompatible materials:
Hazardous decomposition products

Not available. Not available. Not available. Not available. Not available. Not available.

vity:	Not available.
cal stability:	Stable under recommended temperatures and pressures.
lity of hazardous reactions:	Not available.
ons to avoid:	Dust generation.
atible materials:	Strong oxidizing agents.
ous decomposition products:	Carbon oxides, Hydrogen bromide, Hydrogen fluoride, Nitrogen
	oxides.

11. Toxicological Information	
RTECS#	Not available.
Acute toxicity:	Not available.
Routes of exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms related to the physical, chemical and	Skin contact may result in inflammation
toxicological characteristics:	characterized by itching, scaling, reddening,
	blistering, pain or dryness. Eye contact may result
	in redness, pain or severe eye damage. Inhalation
	may cause irritation of the lungs and respiratory

or death.

#### Carcinogenicity

Not classified. IARC: NTP: Not listed. OSHA: Not listed. Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

12. Ecological Info	ormation		
Ecotoxicity:		Not available.	
Persistence and degra	adability:	Not available.	
Bioaccumulative pot		Not available.	
Mobility in soil:		Not available.	
Other adverse effects	:	Not available.	
13. Disposal Cons	iderations		
Disposal of waste:	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance.		

Disposal of packaging: Do not reuse containers. Dispose of as unused product.

#### 14. Transportation Information **DOT (United States)** UN number:

Proper shipping name:

Not hazmat Not available.

system. Overexposure may result in serious illness

Transport hazard class: Packing group:	Not available. Not available.
ΙΑΤΑ	
UN Number:	Not DG
Proper shipping name:	Not available.
Transport hazard class:	Not available.
Packing group:	Not available.
15. Regulatory Information	
TSCA (United States)	

# This product is NOT on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

California Proposition 65: NFPA Rating:	Not Available Health: Flammability: Instability:	2 0 0	

#### **16. Additional Information**

Revision Date: 02/25/2019 Printed Date: 02/14/2020

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.