

# Safety Data Sheet per OSHA HazCom 2012

	on 10/15/2007
1 Identification	
Product identifier Product name: <b>3-Bromo-5-fluoro-4-methoxyaniline</b>	
Stock number: CAS Number:	
875664-44-1 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com <b>Information Department:</b> Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789	
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled.         H331       Toxic if inhaled.         H331       Toxic if inhaled.         H335       Causes skin irritation.         H335       May cause respiratory irritation.         H336       May cause respiratory irritation.         H337       Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P3351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance store flast         P18       Toxic material causing immediate and serious toxic effects	
D2B - Toxic material causing other toxic effects	
Classification system	
HAIS ratings (scale 0-4)         (Hazardous Materials Identification System)         HEALTH 2         Health (acute effects) = 2         FIRE 1         Flammability = 1         REACTIVITY 1         Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: 875664-44-1 3-Bromo-5-fluoro-4-methoxyaniline	
	USA USA USA

(Contd. on page 2)

Product name: 3-Bromo-5-fluoro-4-methoxyaniline	
	(Contd. of page 1
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor	
Most important symptoms and effects, both acute and delayed Methemoglobinemia Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Hydrogen bromide (HBr) Nitrogen oxides (NOx) Hydrogen fluoride (HF) <b>Advice for firefighters</b>	
<i>Protective equipment:</i> Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Ensure adequate vertiliation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections	
Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. <b>Specific end use(s)</b> No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keen away from foodstrift, beverages and food	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present.	
Protection of hands: Impervious gloves	
Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information	
Appearance: Form: Crystalline powder	
	(Contd. on page USA

#### Product name: 3-Bromo-5-fluoro-4-methoxyaniline

		(Contd. of page 2)
Color: Odor: Odor threshold:	Pale yellow Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	70-73 °C (158-163 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density: Relative density	Not applicable. Not determined Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water).	Insoluble Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	

#### 10 Stability and reactivity

Stability and reactivity
 Reactivity No information known.
 Chemical stability Stable under recommended storage conditions.
 Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
 Possibility of hazardous reactions No dangerous reactions known
 Conditions to avoid No further relevant information available.
 Incompatible materials: Oxidizing agents
 Hazardous decomposition products:
 Carbon monoxide and carbon dioxide
 Hydrogen bromide
 Nitrogen oxides
 Hydrogen fluoride

#### 11 Toxicological information

PB1: Not applicable.
 vPvB: Not applicable.
 Other adverse effects No further relevant information available.

### 13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

(Contd. on page 4)

## Safety Data Sheet per OSHA HazCom 2012

### Product name: 3-Bromo-5-fluoro-4-methoxyaniline

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Decementer	packagings:

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4 Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT IMDG, IATA	Toxic solids, organic, n.o.s. (3-Bromo-5-fluoro-4-methoxyaniline) TOXIC SOLID, ORGANIC, N.O.S. (3-Bromo-5-fluoro-4-methoxyaniline)
Transport hazard class(es)	
DOT	
×	
Class	6.1 Toxic substances.
Label	6.1
Class Label	6.1 (T2) Toxic substances 6.1
IMDG, IATA	
Class Label	6.1 Toxic substances. 6.1
	0.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL7	3/18 and the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (3-Bromo-5-fluoro-4-methoxyaniline), 6.1, II
GHS06	
Signal word Danger	
Signal word Danger Hazard statements	
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Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H316       Causes skin irritation.         H317       Causes skin irritation.         H318       Causes skin irritation.         H319       Causes serious eye irritation.         Precautionary statements       P261         P261       Avoid breathing dust/fume/gas/mist/va         P305+P351+P338 IF IN EYES: Rinse cautiously with wai         P304+P340       IF INHALED: Remove person to fresh         P405       Store locked up.         P501       Dispose of contents/container in acco.         National regulations       This product is not listed in the U.S. Environmental Protector oreacrch and development only. This product must be product must not be used for commercial purposes or in the SARA Section 313 (specific toxic chemical listings) S         California Proposition 65       Prop 65 - Developmental toxicity, statance is not listed is prop 65 - Developmental toxicity, male Substance is not listed of the regulations and prohibitive regulati         Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67         market and use must be observed.         Substance is not listed.         Annex XIV of the REACH Regulations (requiring Auth Chemical safety assessment: A Chemical Safety Asse	er for several minutes. Remove contact tenses, if present and easy to do. Continue finsing. air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. ubstance is not listed. d. not listed. ot listed. ot listed. ot histed. ot he REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the porisation for use) Substance is not listed. ssment has not been carried out.
Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H319       Causes serious eye irritation.         H335       May cause respiratory irritation.         Precautionary statements       P261         P261       Avoid breathing dust/fume/gas/mist/vapped/pass/protective clot         P305+P351+P338       FIN EYES: Rinse cautiously with wat         P304+P340       IF INHALED: Remove person to fresh         P405       Store locked up.         P501       Dispose of contents/container in accor         National regulations       This product is not listed in the U.S. Environmental Protect to research and development only. This product must be product must not be used for commercial purposes or in 1         SARA Section 313 (specific toxic chemical listings) S       California Proposition 65         Prop 65 - Developmental toxicity, substance is not listed       Prop 65 - Developmental toxicity, male Substance is in Information about limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67         market and use must be observed.       Substance is not listed.         Annex XIV of the REACH Regulations (requiring Auth Chemi	e air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. ubstance is not listed. d. not listed. ot listed. ot listed. ot listed. ot listed. ot listed. ot listed. ot ne REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the represent has not been carried out.
Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H3112 Harmful if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         Precautionary statements       P261         P280       Wear protective gloves/protective clot         P305+P351+P338 IF IN EYES: Rinse cautiously with wait         P304+P340       IF INHALED: Remove person to fresh         P405       Store locked up.         P501       Dispose of contents/container in acco.         National regulations       This product is not listed in the U.S. Environmental Protector         to research and development only. This product must be product must not be used for commercial purposes or in to SARA Section 313 (specific toxic chemical listings) S         California Proposition 65       Prop 65 - Developmental toxicity, substance is not listed in the concern (SVHC) according to the regulations, limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67         mark and use must be observed.       Substance is not listed.         Annex XIV of the REACH Regulations (requiring Auth Chemic	e air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. ubstance is not listed. d. not listed. ot listed. ot listed. ot listed. ot listed. ot listed. ot listed. ot ne REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the represent has not been carried out.
Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H3112 Harmful if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         Precautionary statements       P261         P280       Wear protective gloves/protective clot         P305+P351+P338 IF IN EYES: Rinse cautiously with wait         P304+P340       IF INHALED: Remove person to fresh         P405       Store locked up.         P501       Dispose of contents/container in acco.         National regulations       This product is not listed in the U.S. Environmental Protector         to research and development only. This product must be product must not be used for commercial purposes or in to SARA Section 313 (specific toxic chemical listings) S         California Proposition 65       Prop 65 - Developmental toxicity, substance is not listed in the concern (SVHC) according to the regulations, limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67         mark and use must be observed.       Substance is not listed.         Annex XIV of the REACH Regulations (requiring Auth Chemic	<pre>ter for several minutes. Remove contact lenses, if present and easy to do. Continue finsing.     air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. ubstance is not listed. d. not listed. ot listed. ot listed. ot listed. ot listed. ot listed. ot here Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006. Substance is not listed. sement has not been carried out. </pre>

(Contd. of page 4)

USA

#### Product name: 3-Bromo-5-fluoro-4-methoxyaniline

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)