

# Safety Data Sheet per OSHA HazCom 2012

1 I dentification Product name: 4-Dromos 3.5-dfluoroaniline Stock number: Represent Advantage: Stock number: Represent Advantage: Represent Advanta		
Product name. 4-Bromo-3.5-diffuoroaniline Stock number: S	1 Identification	
Stops number:       12021         CASI Monitories       Particulated uses of the substance or mixture and uses advised against.         Interference       Interference         Construction       Participation         Participation       Participation         Construction       Participation         Participation       Participatio		
CAS Number: Relevant (Instituted uses of the substance or mixture and uses advised against. Relevant (Instituted uses SU22 Scientific research and development Development (Instituted uses SU22 Scientific research and development Development (Instituted uses SU22 Scientific research and development Market (Instituted Uses Scientific research and development Market (Instituted Uses Scientific research and Uses Scientific research and Uses Scientific research and Research and Scientific research and Scientific research and Research Research Re		
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Details of the supplier of the safety data sheet         Manufacture Supplier:         With the supplier of the safety data sheet         Manufacture Supplier:         With Solution States	203302-95-8 Relevant identified uses of the substance or mixture and uses advised against.	
Affa Assar.       Provide Steps         Born Steps       Steps         Born Steps <td< td=""><td></td><td></td></td<>		
Affa Assar.       Provide Steps         Born Steps       Steps         Born Steps <td< td=""><td>Details of the supplier of the safety data sheet Manufacturer/Supplier:</td><td></td></td<>	Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Sile Dard Street in Own Street St	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
First, 500-323-4757         Information Department: Health, Safety and Environmental Department.         Europerint Control Information Department: Health, Safety and Environmental Department.         Europerint Control Information Department: Health, Safety and Environmental Department.         Europerint Control Information Department: Health, Safety and Environmental Department.         Europerint Control Information of the substance or mixture in accordance with 28 CFR 1910 (OSHA HCS)         Image: Control Information of the substance or mixture in accordance with 28 CFR 1910 (OSHA HCS)         Image: Control Information of the substance or mixture in accordance with 28 CFR 1910 (OSHA HCS)         Image: Control Information on context with sine.         Science Tox: 4 H302 Hamital in Swallowed.         Acute Tox: 4 H302 Chauses Skin Intradion.         Ever Inf. 2. H315 Causes Skin Intradion.         Ever Information Properties         GH506         Signal word Danger         Hasard process Saflow Skin Ha	30 Bond Street	
Ermit: gendgala.com Performation partment: Health, Safety and Environmental Department Emergency Helphone number: Turning normal business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 21 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 22 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 23 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 23 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 24 at (866) 928-0789. 24 East-field behaviors that business hours, call Carechem 25 East-field behaviors	Tel: 800-343-0660 Fax: 800-322-4757	
Information Department: Health, Salety and Environmental Department         Burger Control Methylines number (Monday-Friday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         2 Hazard(s) Identification         Chassification of the substance or muture in accordance with 29 CFR 1910 (OSHA HCS)         Off	Email: tech@alfa.com	
During normal business hours (Monday-Friday, Bam-Tym EST), call (800) 343-0660. After normal business hours, call Carachem 24 at (866) 328-0789.         2 Hazard(s) Identification         Chestification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Off SDG Skull and crossbores         Acute Tox. 3 H331 Toxic II inhaled.         Off SDG Skull and crossbores         Acute Tox. 4 H302 Harmful II swallowed.         Bell elements         Off SDG         Off SDG         Signal word Danger         Hazard pictograms         Mondy-H312 Harmful II swallowed or in contact with skin.         Profit         Mondy Clause Serious sept inflation.         Mondy-H312 Harmful II swallowed or in contact with skin.         Profit       Mondy Clause Serious Sept inflation.         Mondy-H312 Harmful II swallowed or in contact with skin.         Profit       Mondy Clause Serious Pictopic Pictopic Pictopic Pictopic	Information Department: Health, Safety and Environmental Department	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         With Classification         Control Tox: 3 H331 Toxic If inhaled.         Control Tox: 4 H332 Thomful in contact with skin.         Skin Intri.         Control To: 5 = 3 H335 May cause respiratory inflation.         Haards not otherwise classified on information.         Control To: 5 = 3 H335 May cause respiratory inflation.         Haards not otherwise classified on information.         Control To: 5 = 3 H335 May cause respiratory inflation.         Haards not otherwise classified on information.         Control Conger         Haards not otherwise classified on information.         Control Conger         Haards not otherwise classified on information.         H3315 Causes skin inflation.         H3315 Causes sk	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
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Acute Tox. 3 H331 Toxic iI Inhaled.		
System         Acute Tox. 4 H302 Harmful if swallowed.         Acute Tox. 4 H302 Harmful in context with skin.         Skin Int. 7 H315 Causes serious even inflation.         Eye Int. 2A H319 Causes serious even inflation.         File State Tox. 4 H312 Causes serious even inflation.         File State Tox. 4 H312 Causes serious even inflation.         File State Tox. 6 H315 Causes serious even inflation.         File State Tox. 6 Harmful is swallowed on information from the info	GHS06 Skull and crossbones	
Stand         Acute Tox. 4 H302 Harmful if swallowed.         Acute Tox. 4 H302 Harmful in context with skin.         Skin Intt. 2 H315 Causes safous exploritation.         Eye Int. 2A H319 Causes safous exploritation.         File Harmful Causes safous exploritation.         Harmful Causes.         Kin Side I elements.         History Causes safous exploritation.         Harmful Causes.         Kin Side I elements.         Harmful Causes.         Kin Side I elements.         Harmful Causes.         Kin Side I elements.         Harmful Causes.         Harmful Causes.         Kin Side I elements.         Harmful Causes.         Ha	Acute Tox 3 H331 Toxic if inhaled	
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Hazard pictograms         Version         GHS06         Signal word Danger         Hazard statements         H324H312 Harnful if swellowed or in contact with skin.         H335         Causes skin irritation.         H335         M43         Causes skin irritation.         H335         M436         Causes skin irritation.         H335         May cause respiratory irritation.         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P304 P336       FilthALED: Recouldously with water for several minutes. Kennove contact lenses, if present and easy to do. Continue rinsing.         P304 P336       Store locked up.         Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Store locked up.         D1B       Toxic material causing immediate and serious toxic effects         D2B       Toxic material causing other toxic effects         D2B       Toxic ma	Label elements	
Signal word Danger Hazerd statements         H302+H32 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled.         H332       Causes skin Initiation.         H333       Causes skin Initiation.         H335       May cause respiratory initiation.         Precautionary statements       P20         P20       Wear protective clothing/eye protection/face protection.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses.         P304+P351-WF314       Secondents/container in accordance with local/regional/national/international regulations.         WHMINS classification system       Store locked up.         P18 - Toxic material causing other toxic effects       P2         WHS       Passification system         HMMS ratings (scale 0-4)       Hammability = 1		
Signal word Danger Hazerd statements         H302+H32 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled.         H332       Causes skin Initiation.         H333       Causes skin Initiation.         H335       May cause respiratory initiation.         Precautionary statements       P20         P20       Wear protective clothing/eye protection/face protection.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P351+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses.         P304+P351-WF314       Secondents/container in accordance with local/regional/national/international regulations.         WHMINS classification system       Store locked up.         P18 - Toxic material causing other toxic effects       P2         WHS       Passification system         HMMS ratings (scale 0-4)       Hammability = 1		
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Hazard statements         H304-H312 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled         H315       Causes skin initiation.         H316       Causes skin initiation.         H317       Causes skin initiation.         H318       Causes skin initiation.         H319       Causes skin initiation.         H315       May cause respiratory initiation.         H316       May cause respiratory initiation.         Precautionary statements       Food breaking dust/fume/gas/mist/vapours/spray.         Frequence       Mod breaking dust/fume/gas/mist/vapours/spray.         F305+P351+P338       Fin Remove person to fresh air and keep comfortable for breathing.         P305+P351+P338       Fin HALED: Remove person to fresh air and keep comfortable for breathing.         P305+P351+P338       Fin HALED: Remove person to fresh air and keep comfortable for breathing.         P305 - Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       State clussing immediate and serious toxic effects         D28 - Toxic material causing immediate and serious toxic effects         D28 - Toxic material claentification System         HMIS ratings (scale 0-4)         HMIS ratings (Scale 0-4)         Hattings (PAE)		
H331       Toxic if inhaled.         H335       Causes skin initiation.         H319       Causes skin initiation.         H319       Causes skin initiation.         Precautionary statements       Precautionary statements         P201       Avoid breathing dust/fume/gas/mist/vapours/spray.         P201       Avoid breathing dust/fume/gas/mist/vapours/spray.         P201       Pavoid breathing dust/fume/gas/mist/vapours/spray.         P201       New ord breathing dust/fume/gas/mist/vapours/spray.         P201       Avoid breathing dust/fume/gas/mist/vapours/spray.         P201       New ord breathing dust/fume/gas/mist/vapours/spray.         P201       Avoid breathing dust/fume/gas/mist/vapours/spray.         P201       New ord breathing dust/fume/gas/mist/vapours/spray.         P305+P330       IF INFALED: Remove person to fresh air and keep comfortable for breathing.         P40+P340       IF INFALED: Remove person to fresh air and keep comfortable for breathing.         P40+P340       Dibokoteup.         D20-boxed       Descriptional/national/international regulations.         WHMIS classification       Description.         D20-boxed       Dife. Toxic material causing immediate and serious toxic effects         D20-boxed       Dife. Institution System         HMIS rating (scale 0-4)	Hazard statements	
H319       Causes serious eye irritation.         H325       May cause respiration.         Precautionary statements       P201         P201       Avoid breathing dust/fume/gas/mist/vapours/spray.         P205       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P336       FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305+P351+P336       FIN EYES: Rinse cautiously with water for several minutes.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       D18 - Toxic material causing immediate and serious toxic effects         D28 - Toxic material causing other toxic effects       D28 - Toxic material causing other toxic effects         D29       O       Flanmability = 1         H405       Hastification System         HMIS classification system       Halt (acute effects) = 2         Flanmability = 1       Physical Hazard = 1         Other hazards       Results of PBT and VPVB assessment         PBT: Not applicable.       Substances         CASH to applicable.       Substances         CASH to applicable.       Substances         CASH to applicable.		
P261       Avoid breathing dustriume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clohing/eye protection/face protection.         P305+P351+P338 IF IN EVES: Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305+P351+P338 IF IN EVES: Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305+P351       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification system       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification system       HMMS ratings (scale 0-4)         (Hazardous Materials Identification System)       Health (acute effects) = 2         Health (acute effects) = 2       Physical Hazards         Results of PBT and vPvB assessment       PBT: Not applicable.         vPvB: Not applicable.       YvB: Not applicable.         vPvB: Not applicable.       Sustances <t< td=""><td>H315 Causes skin irritation.</td><td></td></t<>	H315 Causes skin irritation.	
P261       Avoid breathing dustriume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clohing/eye protection/face protection.         P305+P351+P338 IF IN EVES: Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305+P351+P338 IF IN EVES: Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P305+P351       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification system       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification system       HMMS ratings (scale 0-4)         (Hazardous Materials Identification System)       Health (acute effects) = 2         Health (acute effects) = 2       Physical Hazards         Results of PBT and vPvB assessment       PBT: Not applicable.         vPvB: Not applicable.       YvB: Not applicable.         vPvB: Not applicable.       Sustances <t< td=""><td>H335 May cause respiratory irritation. Precautionary statements</td><td></td></t<>	H335 May cause respiratory irritation. Precautionary statements	
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       D1B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects       D2B - Toxic material causing other toxic effects         D2B - Toxic material causing other toxic effects </td <td>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection</td> <td></td>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection	
P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       DTB - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects       DE         D2B - Toxic material causing immediate and serious toxic effects       DE         D2B - Toxic material causing other toxic effects       DE         D2B - Toxic material causing other toxic effects       DE         D2B - Toxic material causing other toxic effects       DE         D2B - Toxic material causing other toxic effects       DE         Classification system       HMIS ratings (scale 0-4)         (Hazardous Materials Identification System)       (Hazardous Materials Identification System)         Image: To Flammability = 1       Flammability = 1         Flammability = 1       Flammability = 1         PHOSical Hazard = 1       Other hazards         Results of PBT and vPvB assessment       PBT: Not applicable.         3 Composition/information on ingredients       Chemical characterization: Substances         CAS# Description:       203302-95-8 4-Bromo-3,5-difluoroaniline	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
WHMIS classification       C       C         D1B - Toxic material causing immediate and serious toxic effects         D2B - Toxic material causing other toxic effects         D2B - Toxic material clentification system         HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Definition of the toxic effects         Prescut Part Part Definition of the toxic effects         Prescut Part Part Part Part Part Part Part Par	P405 Store locked up.	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 Hearmability = 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: 203302-95-8 4-Bromo-3,5-difluoroaniline	WHMIS classification	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Construct of the system         PBT: Not applicable.         VPVB: Not applicable.         S Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         203302-95-8 4-Bromo-3,5-difluoroaniline	D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Construct of the system         PBT: Not applicable.         VPVB: Not applicable.         S Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         203302-95-8 4-Bromo-3,5-difluoroaniline		
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Construct of the system         PBT: Not applicable.         VPVB: Not applicable.         S Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         203302-95-8 4-Bromo-3,5-difluoroaniline		
(Hazardouš Materials Identification System)         Image: Internation of the system         PBT: Not applicable.         VPVB: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         203302-95-8 4-Bromo-3,5-difluoroaniline		
Image: Control of 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:         203302-95-8 4-Bromo-3,5-difluoroaniline	(Hazardous Materials Identification System)	
Image: Control of 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:         203302-95-8 4-Bromo-3,5-difluoroaniline	HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.         3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 203302-95-8 4-Bromo-3,5-difluoroaniline	Reactivity 1 Physical Hazard = 1	
PBT: Not applicable.         vPvB: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         203302-95-8 4-Bromo-3,5-difluoroaniline	Results of PBT and vPvB assessment	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 203302-95-8 4-Bromo-3,5-difluoroaniline	PBT: Not applicable	
Chemical characterization: Substances CAS# Description: 203302-95-8 4-Bromo-3,5-difluoroaniline USA —		
CAS# Description: 203302-95-8 4-Bromo-3,5-difluoroaniline USA		
USA – USA	CAS# Description:	
		USA USA

## Product name: 4-Bromo-3,5-difluoroaniline

Product name: 4-Bromo-3,5-difluoroaniline	
	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures	
<b>After inhalation</b> 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. Seek immediate medical advice.	
Seek immediate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
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 autimuishing agente Carbon diavide, autimuishing nowder as water aprev. Eight larger fires with water aprev as elected registent from	
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 fluoride (HF)	
Hydrogen filooride (HF) Nitrogen oxides (NOx) Hydrogen bromide (HBr)	
Advice for firefighters' Protective equipment:	
Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation	
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.	
Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.	
Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
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 comministorage facility: Store away from oxidizing agents.	
Further information about storage conditions: 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.	
Control parameters	
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	
<b>General protective and hygienic measures</b> The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Domovo all poiled and contaminated elething immediately	
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Maintain an ergonomically appropriate working environment.	
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	
Eve 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 3)
	USA

#### Product name: 4-Bromo-3,5-difluoroaniline

		(Contd. of page 2)
Color: Odor:	White Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	99-101 °C (210-214 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	riouaci uoes noi present an explosion nazaru.	
Lower:	Not determined Not determined	
Upper: Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Natapplicable	
kinematic:	Not applicable. Not applicable.	
Other information	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: Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen bromide 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful if swallowed. Toxic if inhaled. Toxic ir innaled. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Gerr cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic proper

Germicen matagementy: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: Subacute to chronic toxicity: Aspiration into the body may lead to the formation of methomorphic producing evonesia and method fell in blood processor leading to active to chronic toxicity: Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### 12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Descrifts of PPT and vPVR assessment **PRESUITS of PBT and vPvB assessment PBT:** 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)

## Product name: 4-Bromo-3,5-difluoroaniline

(Contd. of page 3)

## Uncleaned packagings:

4 Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (4-Bromo-3,5-difluoroaniline) TOXIC SOLID, ORGANIC, N.O.S. (4-Bromo-3,5-difluoroaniline)
IMDG, IATA	IOXIC SOLID, ORGANIC, N.O.S. (4-Bromo-3,5-difluoroaniline)
Transport hazard class(es)	
DOT	
1000	
Class Label	6.1 Toxic substances. 6.1
Class	6.1 (T2) Toxic substances
Label IMDG, IATA	6.1
× ×	
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	73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine De lintert (DOT):	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (4-Bromo-3,5-difluoroaniline), 6.1, III
GHS06	
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 Prote         to research and development only. This product must be       product must not be used for commercial purposes or in         SARA Section 313 (specific toxic chemical listings)       S         California Proposition 65       Prop 65 - Chemicals known to cause cancer Substan         Prop 65 - Developmental toxicity, female Substance is       Noticity	vapours/spray. othing/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. th air and keep comfortable for breathing. ordance with local/regional/national/international regulations. ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. ed. is not listed.
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Auti Chemical safety assessment: A Chemical Safety Asse 6 Other information Employers should use this information only as a suppler	echnically qualified individuals. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t thorisation for use) Substance is not listed. essment has not been carried out. ment to other information gathered by them. and should make independent iudgement of suitability of this
information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in a Department issuing SDS: Global Marketing Departmer Date of preparation / last revision 11/24/2015 / -	and safety of employees." This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user. nt

Date of preparation / last revision 11/24/2015 / -

(Contd. of page 4)

USA

## Product name: 4-Bromo-3,5-difluoroaniline

- Abbreviations and acronyms:

   RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

   IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

   ICAO: International Civil Aviation Organization

   ICAO: Trechnical Instructions by the "International Civil Aviation Organization" (ICAO)

   ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

   IMDG: International Air Transport Association

   IATA: International Air Transport Association

   CAO: Trensportation

   IATA: International Air Transportation

   IATA: International Air Transportation

   IATA: International Air Transport Association

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

   HMIS: Hazardous Materials Identification System (USA)

   WHMIS: Workplace Hazardous Materials Information System (Canada)

   LC50: Lethal concentration, 50 percent

   UPVB: very Persistent and very Bioaccumulative

   ACGHH: American Conference of Governmental Industrial Hygienists (USA)

   OSH: Occupational Safety and Health Administration (USA)

   NTP: National Toxicology Program (USA)

   MAC: International Protection Agency (USA)