# CHEMSERVICE.

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Halauxifen	
Other means of identification		
Item	N-14333	
CAS number	943832-60-8	
Synonyms	4-Amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl )-2-pyridinecarboxylic acid	
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States	
Telephone	Toll Free 800-452-9994	
Website E-mail	Direct 610-692-3026 www.chemservice.com info@chemservice.com	
Emergency phone number	Chemtrec US 800-424-9300	
0 11	Chemtrec outside US +1 703-527-3887	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, Category 4 long-term hazard	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	May cause long lasting harmful effects to aquatic life.	
Precautionary statement		
Prevention	Avoid release to the environment.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	100% of the mixture consists of component(s) of unknown acute oral toxicity. 100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.	

# 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Halauxifen	4-Amino-3-chloro-6-(4-chloro-2-fluoro-3- methoxyphenyl)-2-pyridinecarboxylic acid	943832-60-8	100

### 4. First-aid measures

5. Fire-fighting measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters Fire fighting Use water spray to cool unopened containers. equipment/instructions **Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent product from entering drains. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handlingProvide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to<br/>the environment. Observe good industrial hygiene practices.Conditions for safe storage,Store in original tightly closed container. Store away from incompatible materials (see Section 10

including any incompatibilities of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits Biological limit values	This substance has no PEL, TLV, or other recommended exposure limit. No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	

Material name: Halauxifen

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	980.6 °F (527 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.54 g/cm <sup>3</sup> estimated
Explosive properties	Not explosive.
Molecular formula	C13H9Cl2FN2O3
Molecular weight	331.13
Oxidizing properties	Not oxidizing.
10 Stability and reactivity	

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Skin contactNEye contactDIngestionESymptoms related to the physical, chemical and toxicological characteristicsD	lo adverse effects due to inhalation are expected. lo adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.
Eye contactDIngestionESymptoms related to theDphysical, chemical andDtoxicological characteristics	Direct contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.
IngestionESymptoms related to theDphysical, chemical andtoxicological characteristics	expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.
Symptoms related to the D physical, chemical and toxicological characteristics	birect contact with eyes may cause temporary irritation.
physical, chemical and toxicological characteristics	5
Information on toxicological effects	lot known.
Acute toxicity N	
Skin corrosion/irritation	rolonged skin contact may cause temporary irritation.
Serious eye damage/eye D irritation	Pirect contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
	lot a respiratory sensitizer.
	his product is not expected to cause skin sensitization.
m	lo data available to indicate product or any components present at greater than 0.1% are nutagenic or genotoxic.
	lot classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Eva	luation of Carcinogenicity
Not listed.	Substances (20 CED 1010 1001 1050)
Not regulated.	Substances (29 CFR 1910.1001-1050)
US. National Toxicology Progra Not listed.	am (NTP) Report on Carcinogens
Reproductive toxicity T	his product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - N single exposure	lot classified.
Specific target organ toxicity - N repeated exposure	lot classified.
Aspiration hazard N	lot an aspiration hazard.
12. Ecological information	
Ecotoxicity M	lay cause long lasting harmful effects to aquatic life.
Persistence and degradability	
Bioaccumulative potential N	lo data available.
Mobility in soil N	lo data available.
	lo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation otential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal considerations	
th w	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow his material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with bocal/regional/national/international regulations.
Local disposal regulations D	bispose in accordance with all applicable regulations.
	he waste code should be assigned in discussion between the user, the producer and the waste isposal company.
products pr	Dispose of in accordance with local regulations. Empty containers or liners may retain some roduct residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
er	since emptied containers may retain product residue, follow label warnings even after container is mptied. Empty containers should be taken to an approved waste handling site for recycling or isposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

#### **US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Hazard categories** 

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

# SARA 311/312 Hazardous No

chemical

#### SARA 313 (TRI reporting) Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

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(SDWA)
US state regulations
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California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	01-07-2020
Version #	01
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
Disclaimer	Chem Service, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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