

SAFETY DATA SHEET

Revision Date 01-Apr-2024

Revision Number 3

1. Identification

Product Name

6-Bromo-7-fluoro-3,4-dihydro-2H-1,4-benzoxazine

Cat No.: H62259

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

1160102-28-2

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
6-Bromo-7-fluoro-3,4-dihydro-2H-1,	4-benzoxazine	1160102-28-2	<=100			
	4.	First-aid measures				
General Advice	If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	None reasonably foreseeable.					

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 1	Instability 0	Physical hazards				
		6. Accidental re	lease measures					
Personal	Precautions	Ensure adequate ventilatio formation.	n. Use personal protective equ	uipment as required. Avoid dust				
Environm	ental Precautions	Should not be released into Information.	o the environment. See Sectio	n 12 for additional Ecological				
Methods f Up	for Containment and Cle	ean Sweep up and shovel into containers for disposal.	suitable containers for disposa	al. Keep in suitable, closed				
		7. Handling	and storage					
Handling		Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.						
Storage.		Keep containers tightly close	Keep containers tightly closed in a dry, cool and well-ventilated place.					
	8.	Exposure controls	/ personal protecti	on				
Exposure	Guidelines		ain any hazardous materials v jion specific regulatory bodies					
Engineeri	ng Measures	Ensure that eyewash stations and safety showers are close to the workstation location						
<u>Personal</u>	Protective Equipment							
Eye/fa	ce Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.						

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.				
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.				
Recommended Filter type:	Particle filter. Particulates filter conforming to EN 143.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				

9. Physical	and	chemi	ical	propert	ies
		Solid			

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No information available No information available No data available No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available No information available No data available No information available No information available Not applicable C8 H7 BrF N O 232.05

No information available No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions.				
Conditions to Avoid	Incompatible products.				
Incompatible Materials	Strong oxidizing agents				
Hazardous Decomposition Products None under normal use conditions					
Hazardous Polymerization	Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products

No information available

CAS No

Component

Mexico

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IARC

Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

NTP

ACGIH

OSHA

6-Bromo-7-fluoro-3,4-d 1160102-28-2 Not listed Not listed Not listed Not listed Not listed ihydro-2H-1,4-benzoxa zine No information available **Mutagenic Effects** No information available. **Reproductive Effects Developmental Effects** No information available. Teratogenicity No information available. STOT - single exposure Respiratory system None known STOT - repeated exposure Aspiration hazard No information available Symptoms / effects, both acute and No information available delayed **Endocrine Disruptor Information** No information available **Other Adverse Effects** The toxicological properties have not been fully investigated. 12. Ecological information Ecotoxicity Do not empty into drains. Persistence and Degradability No information available **Bioaccumulation/Accumulation** No information available. No information available. Mobility 13. Disposal considerations Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. 14. Transport information Not regulated DOT Not regulated TDG Not regulated ΙΑΤΑ

United States of America Inventory

IMDG/IMO

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
6-Bromo-7-fluoro-3,4-dihydro-2H-1	1160102-28-2	-	-	-

15. Regulatory information

Not regulated

,4-benzoxazine		

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
6-Bromo-7-fluoro-3,4-dihydro-2H-1	1160102-28-2	-	-	-	-	-		-	-	-
,4-benzoxazine										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
6-Bromo-7-fluoro-3,4-dihydro-2H-1, 4-benzoxazine	1160102-28-2	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
6-Bromo-7-fluoro-3,4-dihydro- 2H-1,4-benzoxazine	1160102-28-2	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
6-Bromo-7-fluoro-3,4-dihydro- 2H-1,4-benzoxazine	1160102-28-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Revision Date Print Date Revision Summary	01-Apr-2024 01-Apr-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS