

# SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

# 1. Identification

#### Product Name

# 2-Bromothiazole

## Cat No. : AC170910000; AC170910050; AC170910250

CAS No Synonyms 3034-53-5 Thiazole, 2-bromo-

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **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)

Flammable liquids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

Hazard Statements Combustible liquid 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

# Keep cool

### 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

#### Eyes

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

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### 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 %			
Thiazole, 2-bromo-		3034-53-5	>95			
	4. F	irst-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute medical attention.					
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.					
Inhalation	Remove from exposure, lie down. Remove to fresh air.					
Ingestion	Clean mouth with water. Get medical attention.					
Most important symptoms and effects	Difficulty in breathing Symptoms of overexposure may be headache, dizziness, tir nausea and vomiting					

Notes to Physician

Treat symptomatically

#### 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam. Water mist may be used to cool closed containers. **Unsuitable Extinguishing Media** No information available 63 °C / 145.4 °F **Flash Point** Method -No information available **Autoignition Temperature** No information available **Explosion Limits** No data available Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Combustible material. Flammable. Containers may explode when heated.

#### Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen halides. Sulfur oxides. Hydrogen cyanide (hydrocyanic acid). Sulfides. nitric acid.

#### **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	<b>Instability</b> 0	Physical hazards N/A					
		6. Accidental release	measures						
	Precautions ental Precautions	Remove all sources of ignition. Tak See Section 12 for additional Ecolo		ainst static discharges.					
Methods Up	for Containment and Clea	n Soak up with inert absorbent mater sawdust). Keep in suitable, closed or sanitary sewer system. Remove	containers for disposal. Do no						
		7. Handling and s	torage						
Handling		Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Keep away from op flames, hot surfaces and sources of ignition.							
Storage.Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and the Keep refrigerated. Keep containers tightly closed in a dry, cool and well-ventilated place.Incompatible Materials.Strong oxidizing agents.									
	8. E	xposure controls / pers	onal protection						
Exposure	Guidelines	This product does not contain any h limitsestablished by the region spec		upational exposure					
Engineeri	ng Measures	Ensure adequate ventilation, espec	ially in confined areas. Ensur	e that eyewash stations					

	and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face 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.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	70 - 71 °C / 158 - 159.8 °F @ 20 mmHg
Flash Point	63 °C / 145.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.820
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C3 H2 Br N S
Molecular Weight	164.03

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen halides, Sulfur oxides, Hydrogen cyanide (hydrocyanic acid), Sulfides, nitric acid
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
Acute Toxicity	11. Toxicological information

Acute Toxicity

Product Information Component Informa Toxicologically Syn	ation	No acute toxicity information is available for this product No information available							
Products	-								
Delayed and immed	nediate effects as well as chronic effects from short and long-term exposure_								
Irritation		No information available							
Sensitization		No information ava	ailable						
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.			
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Thiazole, 2-bromo-	3034-53-5	Not listed No information ava	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		NO INOTTALION ava	allable						
Reproductive Effec	ts	No information ava	ailable.						
Developmental Effe	ects	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known									
Aspiration hazard		No information ava	ailable						
Symptoms / effects delayed	s,both acute and	h acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting							
Endocrine Disrupto	or Information	No information ava	ailable						
Other Adverse Effe	cts	The toxicological p	roperties have not	been fully investig	ated.				
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not flush into surf into drains.	ace water or sanit	tary sewer system.	Do not allow mater	ial to contaminate	ground water syste	em. Do not empty			
Persistence and De	gradability	Persistence is unli	kely based on info	mation available.					
Bioaccumulation/ A	ccumulation	No information available.							
Mobility		Will likely be mobil	e in the environme	nt due to its volatil	ity.				
		13. Dispo	sal conside	erations					
Waste Disposal Me	thods	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. Tran	sport inforr	nation					
DOT	14. Transport information COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.								

UN-No	NA1993
Proper Shipping Name	Combustible liquid, n.o.s.
Packing Group	III
TDG	Not regulated

<u>IATA</u>	Not regulated
IMDG/IMO_	Not regulated
	15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Thiazole, 2-bromo-	3034-53-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export 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
Thiazole, 2-bromo-	3034-53-5	-	Х	221-229-4	-	-	Х	Х	-	-

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

U.S. Federal Regulations	
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> 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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Thiazole, 2-bromo-	3034-53-5	Not applicable	Not applicable	Not applicable	Not applicable
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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Thiazole, 2-bromo-	3034-53-5	Not applicable	Not applicable	Not applicable	Not applicable

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

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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