SAFETY DATA SHEETS

According to Globally Harmonized System of

Classification and Labelling of Chemicals (GHS) -

Sixth revised edition

Version: 1.0		
Creation Date: Aug 11, 2017		
Revision Date: Aug 11, 2017 1.Identification 1.1 GHS Product identifier		
	Benzothiazolyl (Z)-2-(2-aminothiazole-4- methoxycarbonylmethoxyiminothioacetate	
1.2 Other means of identifica	tion	
Product number -	-	
Other names	(S)-2-Benzothiazoly	
1.3 Recommended use of the	e chemical and restrictions on use	
Identified uses	For industry use only.	
Uses advised against	no data available	
1.4 Supplier's details		
1.5 Emergency phone number	er	
Emergency phone		
number	_	
Service hours	Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).	
2.Hazard identification		
2.1 Classification of the substance or mixture		
	stance or mixture	
Not classified. 2.2 GHS label elements, inclu	uding precautionary statements	
2.2 GHS label elements, inclu	uding precautionary statements	

Precautionary statement(s)

Prevention	none
Response	none
Storage	none
Disposal	none

2.3 Other hazards which do not result in classification

none

3.Composition/information on ingredients

3.1 Substances

		CAS	EC	
		numb	numb C	oncentr
Chemical name	Common names and synonyms	er	er	ation
(S)-2-Benzothiazolyl (Z)-	(S)-2-Benzothiazolyl (Z)-			
2-(2-aminothiazole-4-yl)-	2-(2-aminothiazole-4-yl)-			
2-	2-	<u>2460</u>		
methoxycarbonylmethoxyimi	${\tt methoxy} carbony {\tt lmethoxy} {\tt imi}$	<u>35-</u>		
nothioacetate	nothioacetate	<u>38-1</u>	none10	00%
1 First sid was sures				

4.First-aid measures

4.1 Description of necessary first-aid measures General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available 5.Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **5.2 Specific hazards arising from the chemical**

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. 6.Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to

safe areas. Avoid breathing dust. For personal protection see section 8. **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed

containers for disposal.

7.Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid

exposure - obtain special instructions before use.Provide appropriate exhaust

ventilation at places where dust is formed. For precautions see section 2.2. **7.2 Conditions for safe storage, including any incompatibilities**

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

place.

8.Exposure controls/personal protection8.1 Control parametersOccupational Exposure limit values

no data available Biological limit values

no data available 8.2 Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday. 8.3 Individual protection measures, such as personal protective equipment (PPE) Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374

derived from it. Respiratory protection

Wear dust mask when handling large quantities. Thermal hazards

no data available 9.Physical and chemical properties

Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/ freezing point	no data available
Boiling point or initial boiling point and boiling range	610.999oC at 760 mmHg
Flammability	no data available

Lower and upper explosion limit / flammability limit	no data available
Flash point	323.321oC
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	OmmHg at 25° C
Density and/or relative density	1.636g/cm3
Relative vapour density	no data available
	no data
Particle characteristics	available
10.Stability and reactivity 10.1 Reactivity	
no data available 10.2 Chemical stability	
Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions	
no data available 10.4 Conditions to avoid	
no data available 10.5 Incompatible materials	
no data available 10.6 Hazardous decomposition products	
no data available 11.Toxicological information Acute toxicity	

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available
 Skin corrosion/irritation

no data available Serious eye damage/irritation

no data available Respiratory or skin sensitization

no data available Germ cell mutagenicity

no data available Carcinogenicity

no data available Reproductive toxicity

no data available STOT-single exposure

no data available STOT-repeated exposure

no data available Aspiration hazard

no data available 12.Ecological information 12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available
 12.2 Persistence and degradability

no data available 12.3 Bioaccumulative potential

no data available 12.4 Mobility in soil

no data available 12.5 Other adverse effects

no data available 13.Disposal considerations 13.1 Disposal methods Product The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible

packaging materials. 14.Transport information 14.1 UN Number

ADR/RID: no data	IMDG: no data	IATA: no data
available	available	available

14.2 UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.3 Transport hazard class(es)

ADR/RID: no data	IMDG: no data	IATA: no data
available	available	available

IMDG: no data

14.4 Packing group, if applicable

ADR/RID: no data available

available

IATA: no data available

14.5 Environmental hazards

ADR/RID: noIMDG: noIATA: no

14.6 Special precautions for user

no data available 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available 15.Regulatory information 15.1 Safety, health and environmental regulations specific for the product in question

		CAS numb	EC numb
Chemical name	Common names and synonyms	er	er
(S)-2-Benzothiazolyl (Z)-	(S)-2-Benzothiazolyl (Z)-		
2-(2-aminothiazole-4-yl)-	2-(2-aminothiazole-4-yl)-		
2-	2-	<u>2460</u>	
methoxycarbonylmethoxyimi	methoxycarbonylmethoxyimi	<u>35-</u>	
nothioacetate	nothioacetate	<u>38-1</u>	none
			Not
European Inventory of	Existing Commercial Chemica	1	List
Substa	nces (EINECS)		ed.
			Not
			List
EC	Inventory		ed.
			Not
			List
United States Toxic Substa	nces Control Act (TSCA) Inve	entory	ed.
			Not
			List
China Catalog of	Hazardous chemicals 2015		ed.
			Not
			List
New Zealand Invent	tory of Chemicals (NZIoC)		ed.
			Not
Philippines Inventory of (Chemicals and Chemical Subst	ances	List
	(PICCS)		ed.
			Not
			List
Vietnam Nation	al Chemical Inventory		ed.
			Not
Chinese Chemical Inventory	y of Existing Chemical Subst	ances	List
1	ina IECSC)		ed.

Information on revision

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Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods
 by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50% References
- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.