

## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION

Product Name: Thifluzamide 96%TC

Chemical name: 2',6'-dibromo-2-methyl-4'-trifluoromethoxy-4-trifluoromethyl-1,3- thiazole-5-carboxanilide (IUPAC)

Recommended use of the chemical and restrictions on use: This material is a kind of antiseptic.

Supplier's details:

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### SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 1

GHS Label elements, including precautionary statements:



Signal word: Warning.

Hazard statement(s): Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention:

Avoid release to the environment.

Response:

Collect spillage.

Storage: /

Disposal:

Dispose of contents/container in accordance with relevant regulations.

Other hazards which do not result in classification: /

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration, w/w, %
Thifluzamide	130000-40-7	96.0%

#### SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

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 Ingestion: Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed: /

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

#### SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, chemical powder or water spray.

Special hazards arising from the chemical: This material may decompose at high temperature and fire and release toxic fumes.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions: Do not enter into spillage area. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect in a clean container according to local regulations.

#### SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Wear protective gloves/eyes protection/face protection/protective clothing. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep containers tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from flammable materials and oxidizers.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation or a process enclosure ventilation system may be required.

Individual protection measures

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a

special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. Impervious clothing.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Thermal hazards: /

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Grey white powder
Odour	N/A
Odour Threshold	N/A
pH	5-8
Melting point/freezing point	177.9–178.6 °C
Initial boiling point and boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	N/A
Upper/lower flammability or explosive limits	N/A
Vapour pressure	N/A
Vapour density	1.008 × 10 <sup>-6</sup> mPa (20 °C)
Relative density	1.930
Solubility(ies)	N/A In water 1.6 mg/l (pH 5.7), 7.6 mg/l (pH 9) (20 °C).
Partition coefficient: n-octanol/water	logP = 4.16 (pH 7)
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A

## SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: The material is stable in normal temperature..

Possibility of hazardous reactions: /

Conditions to avoid: Spark, high temperature and static electricity.

Incompatible materials: Oxidizers and flammable materials.

Hazardous decomposition products: Oxycarbides, nitrogen oxides, oxysulfide sulfoxide, bromides, fluorides, etc.

## SECTION 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects: Accidental ingestion of the material may be harmful and cause cough and

throat irritation. Oral intake may cause headache, giddiness, vomit and other symptoms. This material may cause skin and eyes irritation.

Chronic health effects: /

Numerical measures of toxicity(such as acute toxicity estimates):

Acute Oral Toxicity (Rat): LD50>6500 mg/kg body weight,

Acute Dermal Toxicity (Rat): LD50>5000 mg/kg body weight.

Acute Inhalation Toxicity (Rat): LC50 (4h)>5 mg/L, Could not be classified according to GHS.

Acute Eyes Irritation (Rabbit) : Non-irritant, Could not be classified according to GHS

Acute Dermal Irritation (Rabbit) : Non-irritant, Could not be classified according to GHS

Skin Sensitization(Guinea Pig) : Non-sensitiser

ADI: 0.014 mg/kg b.w.

## SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Birds (bobwhite quail) :

Acute oral LD50 >2250 mg/kg body weight.

Dietary LC50 (5d) >5620 mg/kg feed.

Fish (bluegill sunfish) :

LC50 (96 h) > 1.2 mg/L.

Bees:

Oral LD50 > 1000µg/bee; Contact LD50 >100 µg/bee.

Daphnia:

EC50 (48 h) > 0.051 mg/L.

Algae (Pseudokirchneriella subcapitata) :

ErC50 (72 h) >1.4 mg/L;

Worms(Eisenia foetida):

LC50 > 1250 mg/kg soil.

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

## SECTION 14 TRANSPORT INFORMATION

UN number: 3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es) :9.

Packing group, if applicable:III.

Environmental hazards: Sever marine pollutant.

Special precautions for user: /

## SECTION 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012,

GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

**SECTION 16 OTHER INFORMATION**

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
Form Date	01-Sep.-2016

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.