

# Accelerator MDB

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> Willing New Materials Technology Co.,Ltd. Chemical Industry-Intensive Area Puyang, Henan, China 457163	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
<b>Trade Name(s):</b> Accelerator MDB, Morfax, MDBA	<b>Chemical Name:</b> 2-(4'-Morpholinylidithio)-benzothiazole
<b>Relevant identified uses of the substance or mixture and uses advised against:</b> No further relevant information available.	<b>Application of the substance/the preparation:</b> Rubber compounding.
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>Date of Issue:</b> March 4, 2021

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:  
 Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012)

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable to EU regulations and US GHS regulations:



Signal word: Warning

Hazard statements  
 H400 - Very toxic to aquatic life.

Precautionary statements  
 P273 - Avoid release to the environment.  
 P391 - Collect spillage.  
 P501 - Dispose of contents/ container to an approved waste disposal plant.

Other hazards  
 Results of PBT and vPvB assessment  
 PBT: Not applicable.  
 vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(4'-Morpholinylidithio)-benzothiazole	202-410-7	95-32-9	96	Aquatic Acute 1 (H400)

**4. FIRST AID MEASURES**

Description of first aid measures

General advice

Do not get in eyes, or on skin. Do not breathe vapors. In the case of skin irritation or allergic reactions see a physician. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

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.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed No information available.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media Dry chemicals, CO<sub>2</sub>, water spray or foam.

Unsuitable extinguishing media No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, nitrogen oxides, sulfur oxides.

Advice for firefighters Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin or eyes. Avoid generation of dust. Do not breathe dust. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.  
Avoid generation of dust. Avoid breathing dust.

Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

## 7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid generation of dust. Do not breathe dust. Avoid contact with skin or eyes. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from strong oxidants, strong acids, strong bases. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Control parameters: No data available

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration (PNEC): No information available

Exposure controls: Engineering controls  
 Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.

Personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).  
 Hand protection: Wear protective gloves.  
 Skin and body protection: Suitable protective clothing.  
 Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls: Prevent entry into waterways, sewers, basements or confined areas.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Form: Granule. Color: Cream to yellow	Change in Condition Melting Point/Melting Range: 123 °C Boiling Point/Boiling Range: Undetermined.
Odor: Light.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: Not applicable.	Flash point: Not applicable.
Density at 25 °C: 1.51 g/cm <sup>3</sup> .	Flammability (solid, gaseous): May cause fire.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

Other information

Ash content 0.3% max  
 Molecular weight 284.42  
 Molecular formula C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>S<sub>3</sub>

**10. STABILITY AND REACTIVITY**

Reactivity  
 No information available.

Chemical stability  
 Stable under normal conditions.

Possibility of hazardous reactions  
None under normal processing.

Conditions to avoid  
Heat, flames and sparks. Incompatible materials.

Incompatible materials  
Strong oxidants, strong acids, strong bases.

Hazardous decomposition products  
Carbon oxides, nitrogen oxides, sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Oral LD50 (mg/kg): 11500 mg/kg (Rat).

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitization No sensitization responses were observed.

Germ cell mutagenicity Negative.

Carcinogenicity Negative.

Reproductive toxicity Negative.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

## 12. ECOLOGICAL INFORMATION

Toxicity

Very toxic to aquatic life.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment  
 PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

Other adverse effects  
 No information available.

**13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused products  
 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging  
 Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORTATION INFORMATION**

UN number: 3077

UN proper shipping name  
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-(4'-Morpholinylidithio)-benzothiazole)

Transport hazard class(es): 9

Packing group: III

Environmental hazards: Marine pollutant

Special precautions for user: No information available

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

DOT – Not regulated.

**15. REGULATORY INFORMATION**

**European Union**

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
2-(4'-Morpholinylidithio)-benzothiazole 95-32-9 ( 96 )	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**International inventories**

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
2-(4'-Morpholinylidithio)-benzothiazole 95-32-9 ( 96 )	X	DSL	X	X	X	X	X

"-" Not Listed  
 "X" Listed

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.