

# Sovchem<sup>®</sup> TiBTD

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 TiBTD	<b>Synonyms:</b> TiBTD, Rubber Accelerator
<b>Chemical Name:</b> Tetraisobutylthiuram Disulfide	<b>CAS Number:</b> 3064-73-1
<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	<b>Date of Issue:</b> August 20, 2020

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the Globally Harmonized System (GHS).

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment: Not applicable.

### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008: N/A

Hazard pictograms: N/A

Signal word: N/A

Hazard statements: N/A

Hazard description

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0-4)



Health = 1  
 Fire = 0  
 Reactivity = 0

HMIS ratings (scale 0-4)



Health = 1  
 Fire = 0  
 Reactivity = 0

HMIS Long Term Health Hazard Substances: Substance is not listed.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

CAS No., Description: 3064-73-1 Tetraisobutylthiuram Disulfide

Identification number(s)

EC number: 221-312-5

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

General information: No special measures required.

After inhalation

Supply fresh air; consult doctor in case of complaints.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact

Clean with water and soap.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Cramp

Nausea

Hazards: Condition may deteriorate with alcohol consumption.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

May produce a disulfiram effect.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

#### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### 5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing.
- Avoid formation of dust.
- Ensure adequate ventilation

### 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up

- Pick up mechanically.
- Dispose contaminated material as waste according to Section 13.

### 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of dust.
- Any unavoidable deposit of dust must be regularly removed.

### Information about fire and explosion protection

- Protect from heat.
- Dust can combine with air to form an explosive mixture.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Requirements to be met by storerooms and receptacles: No special requirements.

#### Information about storage in one common storage facility

- Store away from oxidizing agents.
- Do not store together with acids.
- Store away from foodstuffs.

#### Further information about storage conditions

- Protect from heat and direct sunlight.
- Keep container tightly sealed.
- Store receptacle in a well-ventilated area.

### 7.3 Specific end use(s): No further relevant information available.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see Section 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

Avoid alcohol consumption while working with the product.

Do not inhale dust / smoke / mist.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

### Respiratory protection



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

### Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable

Butyl rubber, BR

Neoprene gloves

### Eye protection



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment: No further relevant information available.

### Risk management measures

See Section 7 for additional information.

No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

Appearance Form: Crystal or Powder. Color: Light yellow.	Change in Condition Melt Point/Range: 156 °F / 69 °C (Minimum). Boiling point/Range: Undetermined.
Odor: Light.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	Solvent Content: Organic solvents: Not determined.
pH Value: Not applicable.	Specific Gravity: 1.27 – 1.30.
Vapor pressure: Not applicable.	Flash point: Not applicable.
Density at 25 °C: 1.15 g/cm <sup>3</sup> .	Flammability (solid, gaseous): Not determined.
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 at 20 °C: <1.0 g/l.	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.

9.2 Other information No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

Reacts with strong acids.

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

### 10.4 Conditions to avoid

Keep away from heat and direct sunlight.

Store away from oxidizing agents.

### 10.5 Incompatible materials: No further relevant information available.

### 10.6 Hazardous decomposition products

Sulphur oxides (SO<sub>x</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Primary irritant effect

on the skin: Slight irritant effect on skin and mucous membranes.

on the eye: Slight irritant effect on eyes.

Sensitization: No sensitizing effects known.

#### Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU

#### Classification

Guidelines for Preparations as issued in the latest version.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic toxicity: The material is harmful to the environment.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

#### Ecotoxicological effects

Remark: The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

#### Additional ecological information

##### General notes

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

#### Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number  
DOT, ADR, ADN, IMDG, IATA                      N/A

14.2 UN proper shipping name  
DOT, ADR, ADN, IMDG, IATA                      N/A

14.3 Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA Class              N/A

14.4 Packing group  
DOT, ADR, IMDG, IATA                              N/A

14.5 Environmental hazards  
Marine pollutant                                      No

14.6 Special precautions for user                      Not applicable

14.7 Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code                  Not applicable.  
UN "Model Regulation"

**15. REGULATORY INFORMATION**

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

United States (USA)	
SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	3064-73-1: Not listed on the DSL, listed on Non-Domestic Substances List (NDSL).
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 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.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)