



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WESTCO™ TiBTD

Other means of identification

Chemical characterization: Tetra(isobutyl)thiuram disulfide, Tetra(isobutyl)thioperoxydicarbamic acid, TiBTD

Recommended use and restrictions on use

Recommended use: Rubber accelerator

Restrictions on use: No additional information available

Supplier information

Supplier: Western Reserve Chemicals

Supplier Address: 4837 Darrow Road,
Stow, OH 44224 USA

Telephone: 330-650-2244

Fax: 330-650-2255

Website: www.wrchem.com

Emergency phone number: Chemtrec: 1-800-424-9300 US

SECTION 2 – HAZARD(S) IDENTIFICATION

GHS Classification of the substance or mixture in accordance with 29 CFR 1910.1200

Not classified.

GHS Label Elements

Hazard Symbol: None

Signal word: None

Hazard statements:

Precautionary Statements:

Hazard(s) not otherwise classified (HNOC): No information available

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Substance

Components Chemical Identity	CAS Number	Weight%
Tetra(isobutyl)thiuram disulfide	3064-73-1	97-99

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove affected person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed, rinse mouth. Contact a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin contact: Wash off immediately with soap and plenty of water. Remove contaminated clothing and launder before reuse. If skin irritation or rash occurs, get medical advice/attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

General Advice: In case of overexposure or if symptoms develop, seek medical attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this Safety Data Sheet to the physician in attendance.

Most important symptoms/effects, acute and delayed: No information available

Notes to physician: Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient.

Indication of immediate medical attention and special treatment needed: Specific treatments in any case must be based on the physician's judgment and in response to the patient's reactions. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray (fog), foam, carbon dioxide or dry powder.

Unsuitable extinguishing method: No information available.

Special hazards arising from the substance or mixture:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides.

Special firefighting equipment and precautions for firefighters: Avoid breathing smoke or fumes.

Firefighters should wear a self-contained breathing apparatus (SCBA) operating in positive pressure mode and full protective clothing for combating fires. Do not allow runoff to enter drains or waterways.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep people away from spill/leak. Ensure adequate ventilation. Use personal protective equipment specified. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing.

Methods and materials for containment and cleaning up:

Avoid the generation of dust. Sweep up and place into a suitable, closed container for disposal.

Environmental precautions:

Avoid entry into the environment. Prevent product from entering drains. In the event of a spill or accidental release that cannot be contained, notify the relevant authorities in accordance with all applicable regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Good hygienic practices should be observed. Wear suitable protective equipment- See Section 8. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities: Store closed containers in a cool, dry, well-ventilated area. Keep away from heat, sparks, flame and other sources of ignition. Keep away from foodstuffs.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Appropriate engineering controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment. Facilities storing or utilizing this material should be equipped with eye wash station(s) and safety shower(s).

Individual protection measures, such as personal protective equipment:

Respiratory protection: Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. If dust is generated, wear NIOSH-approved dust respirator or dust mask. If vapors/dust are generated above exposure limits, use NIOSH approved full-face organic cartridge filter respirator, air supplied respirator or SCBA. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134)

Eye/face protection: Safety glasses or goggles.

Skin/Hand protection: Wear impervious gloves to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practices. Wash hands with soap and water.

Body protection: To protect the body, wear impervious clothing such as coveralls to minimize skin contact. Select protective equipment according to the concentration and amount of the dangerous substance at the specific workplace. Launder contaminated clothing before reuse.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Yellow crystal
Odor:	No data available
Odor Threshold:	No data available
pH:	Not determined
Boiling Point/Range:	450.86°C (101.3 k/Pa)

Melting Point:	70.9°C (101.3 kPa)
Flash Point (°C):	Not determined
Flammable/Explosion Limits:	No data available
Relative Density (Specific Gravity):	1.15
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Solubility:	Water: 0.000048 g/L (20°C)
Evaporation Rate:	Not determined
Partition Coefficient: (n-octanol/water)	No data available
Auto-ignition Temperature:	No data available
Viscosity:	Not applicable
Explosive Properties:	No data available

SECTION 10 - STABILITY & REACTIVITY

Reactivity: Stable under recommended storage and handling conditions.

Chemical stability: Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions are not anticipated. Violent reactions possible with: Strong oxidizing agents.

Conditions to avoid: Strong heating.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon dioxide. Carbon monoxide. Sulphur oxides. Nitrogen oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

Tetra(isobutyl)thiuram disulfide, CAS No. 3064-3-1

Oral: LD50 (Rat): >2,000 mg/kg (OECD 423/GLP)

Inhalation: LC50 (Rat): >5 mg/l-4h (OECD 403/GLP)

Skin Irritation/Corrosion: Not irritating (OECD 439/GLP)

Serious Eye Damage/Eye Irritation: Not irritating (OECD 438/GLP)



Skin Sensitization:	Not sensitizing	(Similar to OECD 406, Buehler test, GLP)
Mutagenicity:	No data available	
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
Reproductive toxicity:	Not classified	
Teratogenicity:	No data available	
Specific target organ toxicity-single exposure:	Not classified	
Specific target organ toxicity-repeated exposure:	Not classified	
Aspiration hazard:	Not applicable	

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability: Not readily biodegradable

Bioaccumulative potential: Highly bioaccumulative

Mobility in soil: No information available

Other adverse effects: No data available.

Do not allow product to reach ground water, watercourses or sewage system.



SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers should be handled in a manner not to cause dusting during collection, transportation and disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and must be treated as waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORTATION INFORMATION

DOT (US): Not regulated for transportation.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Listed as Active on TSCA Inventory.

SECTION 16 - OTHER INFORMATION

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