



WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

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Version: 1.0

SECTION 1: Identification of Product and Company

1.1. Product identifier

Product form : Mixture
Product name : WESTCO BDzTH
Recommended use : Vulcanising agents, Accelerator, Manufacture of rubber products
Restrictions on use : Any use not specified

1.2. Company identification

Western Reserve Chemical Corporation
4837 Darrow Road
44224 Stow, OH - USA
T 330 650 2244 - F 330 650 2255
www.wrchem.com

Emergency number : CHEMTREC 1 800 424 9300 USA

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS

Hazardous to the aquatic environment — Chronic Hazard, Category 4

2.2. Label elements

GHS labelling

Hazard statements (GHS) : H413 - May cause long lasting harmful effects to aquatic life.
Precautionary statements (GHS) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards not contributing to the classification

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS
1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane	(CAS-No.) 151900-44-6	84 – 90	Aquatic Chronic 4, H413
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%)	(CAS-No.) 64742-65-0	6 – 8	Asp. Tox. 1, H304
Silicon dioxide (amorphous)	(CAS-No.) 7631-86-9	2.4 – 4.4	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂). Nitrogen oxides. Sulphur oxides.
Explosion hazard : None.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Do not dispose of waste into sewer.

6.3. Methods and material for containment and cleaning up

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe dust.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place.
Incompatible products : Strong oxidizers.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silicon dioxide (amorphous) (7631-86-9)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	80 mg/m ³ (per % silica total dust)
OSHA PEL TWA [2]	20 mppcf
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	5 mg/m ³ oil mist
ACGIH STEL (mg/m ³)	10 mg/m ³ oil mist
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (i.e, clearing dust surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

Environmental exposure controls : Avoid release to the environment.

8.3. Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. PVC. Nitrile rubber. Polychloroprene

Eye protection:

Safety glasses with side shields

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Dust Respirator. In case of excessive dust production. Full face respirator

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: white light yellow
Odour	: odourless
Odour threshold	: No data available
pH	: No data available
Melting point	: 90 – 100 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.25 @ 20 °C
Solubility	: Water: < 0.05 mg/l @ 20 °C
Log Pow	: 10.4 @ 20 °C
Auto-ignition temperature	: ≥ 420 °C
Decomposition temperature	: 145 – 400 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Not available

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Hazardous decomposition products	: None under normal use.
Incompatible materials	: Strong oxidizers.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.
Reactivity	: No dangerous reactions known.
Handling temperature	: No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not available

WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

Acute toxicity (dermal) : Not available
Acute toxicity (inhalation) : Not available

WESTCO BDzTH	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane (151900-44-6)	
LD50 oral rat	> 20000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Silicon dioxide (amorphous) (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 58.8 mg/l/4h

Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not available
Serious eye damage/irritation : Not available
Respiratory or skin sensitisation : Not available
Germ cell mutagenicity : Not available
Carcinogenicity : Not available
Reproductive toxicity : Not available
STOT-single exposure : Not available
STOT-repeated exposure : Not available

1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane (151900-44-6)	
NOAEL (oral, rat, 90 days)	10000 mg/kg bodyweight/day

Aspiration hazard : Not available

Other information : Likely routes of exposure: inhalation, skin and eye.

11.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not available
Hazardous to the aquatic environment, long-term (chronic) : May cause long lasting harmful effects to aquatic life.
Other information : Avoid release to the environment.

1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane (151900-44-6)	
LC50 fish 1	> 1 mg/l 96 h <i>Leuciscus idus melanotus</i>
EC50 crustacea	> 7.6 mg/l 48 h <i>Daphnia magna</i>
EC50 other aquatic organisms 1	> 10000 mg/l 3 h Bacteria - activated sludge

Silicon dioxide (amorphous) (7631-86-9)	
LC50 fish 1	> 10000 mg/l
EC50 crustacea	> 1000 mg/l

12.2. Persistence and degradability

WESTCO BDzTH	
Persistence and degradability	The product is not biodegradable.

1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane (151900-44-6)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	14 % 28 d

Silicon dioxide (amorphous) (7631-86-9)	
Persistence and degradability	Product persists.

Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
Persistence and degradability	Not established.

WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

12.3. Bioaccumulative potential

WESTCO BDzTH	
Log Pow	10.4 @ 20 °C
Bioaccumulative potential	Not established.
1,6-bis((dibenzylthiocarbamoyl)disulfanyl)-hexane (151900-44-6)	
Log Pow	10.4
Bioaccumulative potential	Does not bioaccumulate significantly.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

WESTCO BDzTH	
Partition coefficient n-octanol/water (Log Koc)	4.98 – 8.45

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1 National and international Regulations

Overland transport

UN-No. : Not applicable
Transport hazard class(es) : Not applicable
Packing group : Not applicable
Dangerous for the environment : No

Transport by sea

Not regulated.

Air transport

Not regulated.

14.2 Other information

No data available

SECTION 15: Regulatory information

Regional legislation : No data available

SECTION 16: Other information

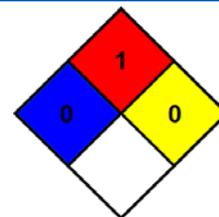
Other information : None.
Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. GHS Mexico. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.
Abbreviations and acronyms : ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population
STEL: Short Term Exposure Limits
WEL: Workplace Exposure Limit
BOD - Biochemical oxygen demand (BOD)
TWA: Time Weighted Average

WESTCO BDzTH

Safety Data Sheet

NOM-018-STPS-2015

- NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



Hazard Rating

- Health : 0 Minimal Hazard - No significant risk to health
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : E
E - Safety glasses, Gloves, Dust respirator

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.