

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/18/2020 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Product name	: Westco TBBS	
Synonyms	: Accelerator TBBS / N-tert-butylbenzothiazole-2-sulphenamide	
1.2. Recommended use and restrictions of	on use	
Use of the substance/mixture	: Accelerator Rubbers	
Restrictions on use	: No additional information available	
1.3.SupplierWestern Reserve Chemical Corporation4837 Darrow RoadStow, OH 44224 - USAT 330 650 2244 - F 330 650 2255www.wrchem.com		
1.4.Emergency telephone numberEmergency number	: CHEMTREC 1 800 424 9300 USA	
SECTION 2: Hazard(s) identification		

2.1. Classification of the substance or mixture

GHS classification

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction. Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS)



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Signal word (GHS)	: Warning
Hazard statements (GHS)	: H317 - May cause an allergic skin reaction.
Precautionary statements (GHS)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS classification
N-tert-butylbenzothiazole-2-sulphenamide	(CAS-No.) 95-31-8	98	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS classification
White mineral oil	(CAS-No.) 8042-47-5	2	Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

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 : Remove person to fresh air and keep confortable for breathing. If experiencing respiratory symptoms, call a doctor. First-aid measures after skin contact : Wash skin thoroughly with mild soag and water. Take of contaminated clothing and wash it before reuse. If skin trittation occurs: Cet medical advice/attention. First-aid measures after eye contact : If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and deay to do. Continue rinsing. If eye inflation persists: Get medical advice/attention. First-aid measures after eye contact : It ling. Extense 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after skin contact : It ching. Rechness. May cause an allergic skin reaction. 4.3. Immediate medical attention and special treatment, if necessary Treat symptomatically. : Do not use a heavy water stream. 5.4. Suitable (and unsuitable) extinguishing media : Do not use a heavy water stream. 5.3. Special protective equipment and precautions of rife-fighters Fire fighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fi	SECTION 4: First-aid measures	
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. Use personal protective equipment as required. Do not breathe dust. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, include	ding any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed.
Incompatible products	: Reducing agents. Acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

Prohibitions on mixed storage

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters	
Westo	to TBBS	
No ad	ditional information available	
N-tert	N-tert-butylbenzothiazole-2-sulphenamide (95-31-8)	
No ad	No additional information available	
White	mineral oil (8042-47-5)	
No ad	No additional information available	

: Prevent leakage or spillage. Prevent contaminated water run-off.

: Keep/Store away from incompatible materials.

8.2. Appropriate engineering controls

Appropriate engineering controls

: Avoid creating or spreading dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Environmental exposure controls

Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

8.3.

Wear suitable gloves resistant to chemical penetration. Dust impervious gloves. Industrial and professional. Perform risk assessment prior to use. Consult glove manufacturer's product information on material suitability and material thickness.

Eye protection:

Safety glasses with side shields. In case of dust production: protective goggles

Skin and body protection:

Long sleeved protective clothing. Rubber Apron. Tyvek® Gown/Coveralls

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Dust mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physi	9.1. Information on basic physical and chemical properties	
Physical state	: Solid	
Appearance	: granules. Powder.	
Colour	: white light yellow	
Odour	: slight amine	
Odour threshold	: No data available	
рН	: No data available	
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5	
Melting point	: ≥ 105 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 166 °C
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	: 1.3
Density	: 1.28 – 1.3 g/cm ³
Solubility	: Insoluble. Water: 0.345 mg/l @ 20 °C
Log Pow	: 4.5
Auto-ignition temperature	: 349 °C
Decomposition temperature	: 207 °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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Reducing agents. Acids.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information		
11.1. Information on toxicologi	11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
N-tert-butylbenzothiazole-2-sulph	enamide (95-31-8)	
LD50 oral rat	> 6310 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	
White mineral oil (8042-47-5)		
LD50 oral rat	> 5000 mg/kg	

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
White mineral oil (8042-47-5)	
NOAEL (chronic, oral, animal/male, 2 years)	> 1200 mg/kg bodyweight No carcinogenic potential observed.
Additional information	Chronic dermal: mouse: Lack of significant effects. Chronic inhalation to various animal species at 5 and 100 mg/m3 doses: no adverse effects.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
White mineral oil (8042-47-5)	
NOAEL (subacute, oral, animal/male, 28 days)	> 1500 mg/kg bodyweight (dog)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after skin contact	: Itching. Redness. May cause an allergic skin reaction.
SECTION 12: Ecological information	

SECTION 12: Ecological information 12.1. Toxicity : Toxic to aquatic life with long lasting effects. Ecology - water N-tort-buty/bonzothiazolo-2-sulphonamida (05-31-8)

N-tert-butylbenzothiazole-2-sulphenamide (95-31-8)	
LC50 fish 1	0.345 mg/l 96 h Oryzias latipes
EC50 crustacea	0.345 mg/l 48 h Daphnia magna
ErC50 (algae)	0.071 mg/l 72 h Selenastrum capricornutum
NOEC chronic crustacea	0.068 mg/l 21 d
White mineral oil (8042-47-5)	
LC50 fish 1	3841 mg/l Oncorhynchus mykiss

12.2. Persistence and degradability

Westco TBBS	
Persistence and degradability	May cause long-term adverse effects in the environment.
N-tert-butylbenzothiazole-2-sulphenamide (95-31-8)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d

12.3. **Bioaccumulative potential**

Westco TBBS	
Log Pow 4.5	
N-tert-butylbenzothiazole-2-sulphenamide (95-31-8)	
Log Pow	3.36 @ 25 °C

12.4. Mobility in soil

Westco TBBS	
Ecology - soil	Not established.

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations		
13.1. Disposal methods		
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.	
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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transport by sea

: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-tert- butylbenzothiazole-2-sulphenamide), 9, III, MARINE POLLUTANT
: 3077
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
: 9 - Miscellaneous dangerous substances and articles
: III - substances presenting low danger
: 5 kg
: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (N-tert- butylbenzothiazole-2-sulphenamide), 9, III
: 3077
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
: 9 - Miscellaneous Dangerous Goods
: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

N-tert-butylbenzothiazole-2-sulphenamide (95-31-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
White mineral oil (8042-47-5)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
National regulations	

No additional information available

15.3. US State regulations

SECTION 4C.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other Informa	ition
Data sources	: TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. ACGIH (American Conference of Government Industrial Hygienists). Manufacturer Information. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. NFPA 400-2013 Hazardous Materials Code.

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Other information	: None.
Full text of H-statements:	
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Abbreviations and acronyms:	
	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
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions,

Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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	: J J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

and not reactive with water.

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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.