

Safety Data Sheet

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

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Westco DPTU			
Synonyms	1,3-diphenyl2-thiourea / Accelerator DPTU / N,N'-diphenylthiourea			
1.2. Recommended use and restrictions	s on use			
Use of the substance/mixture	Accelerator Rubbers			
Restrictions on use	: No additional information available			
1.3. Supplier				
Western Reserve Chemical Corporation 4837 Darrow Road Stow, OH 44224 - USA T 330 650 2244 - F 330 650 2255 www.wrchem.com				
1.4. Emergency telephone number				
Emergency number	: CHEMTREC 1 800 424 9300 USA			
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or mixture				
GHS classification				
Acute toxicity (oral), Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity — Single exposure irritation	H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.			
Specific target organ toxicity — Repeated expos	Sure, Category 2 H373 May cause damage to organs through prolonged or repeated exposure.			
Full text of H statements : see section 16				
2.2. GHS Label elements, including pred	cautionary statements			

GHS-US labelling

Hazard pictograms (GHS)

Signal word (GHS) Hazard statements (GHS)

Precautionary statements (GHS)

- : Danger : H301 - Toxic if swallowed.
- H301 Toxic if swallowed. H315 - Causes skin irritation.
- H319 Causes serious eye irritation.
- H319 Causes serious eye irritation. H335 - May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- : P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P264 Wash hands, forearms and face thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P301+P310 If swallowed: Immediately call a poison center or doctor.
 - P302+P352 If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P312 Call a poison center/doctor if you feel unwell
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see supplemental first aid instruction on this label).
- P330 Rinse mouth.

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P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
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
1,3-diphenyl-2-thiourea	(CAS-No.) 102-08-9	95 – 99	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411
White mineral oil	(CAS-No.) 8042-47-5	< 2	Asp. Tox. 1, H304

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

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. Allow the victim to rest.
First-aid measures after skin contact	:	Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects	:	May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	:	May cause respiratory irritation. Irritation of the nasal mucous membranes.
Symptoms/effects after skin contact	:	Causes skin irritation. Redness. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	:	Causes serious eye irritation. Symptoms may include pain, blinking, tears and redness.
Symptoms/effects after ingestion	:	Swallowing a small quantity of this material will result in serious health hazard. Toxic if swallowed. Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities. Diarrhea. Nausea. Vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. alcohol resistant foam. dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	: None known.	
5.2. Specific hazards arising from the ch	emical	
Fire hazard	: Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.	
5.3. Special protective equipment and pr	ecautions for fire-fighters	
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.	

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe dust. Use personal protective equipment as required. 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 : Refer to section 8.2. Protective equipment Emergency procedures : Ventilate area. 6.2. **Environmental precautions** Prevent entry to sewers and public waters. Avoid release to the environment. 6.3. Methods and material for containment and cleaning up For containment : Recover the product by vacuuming, shovelling or sweeping. Avoid generating dust. Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. 6.4. **Reference to other sections** See Heading 8. Exposure controls and personal protection. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid creating or spreading dust. Do not breathe dust. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Keep only in the original container. Keep container closed when not in use.
Incompatible products	: Strong oxidizers.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Westco DPTU	
No additional information available	
White mineral oil (8042-47-5)	
No additional information available	
1,3-diphenyl-2-thiourea (102-08-9)	
No additional information available	

: Store in dry, cool, well-ventilated area.

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

general room ventilation.
 Prevent leakage or spillage. Prevent contaminated water run-off.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Storage area

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Hand protection:

Wear suitable gloves resistant to chemical penetration. Dust impervious gloves. Nitrile rubber. Minimum glove thickness is 0.11 mm. Breakthrough time is > 480 minutes.

Eye protection:

Chemical goggles

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Dust mask. Approved organic vapour respirator

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p	roperties		
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Crystalline solid. Powder.		
Colour	: white Grey		
Odour	: odourless		
Odour threshold	: No data available		
рН	: No data available		
Melting point	: > 148 °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	: No data available		
Density	: 1.3 g/cm ³		
Solubility	: insoluble in water. Soluble in : Ethanol, Ether, Chloroform.		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
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.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological informat	ion	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Toxic if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
ATE (oral)	101.01 mg/kg bodyweight	
White mineral oil (8042-47-5)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5 mg/l/4h	
1,3-diphenyl-2-thiourea (102-08-9)		
LD50 oral rat	> 50 mg/kg	
LD50 dermal rabbit	> 7940 mg/kg	
ATE (oral)	100 mg/kg bodyweight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified	
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	: May cause respiratory irritation.	
1,3-diphenyl-2-thiourea (102-08-9)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.		
White mineral oil (8042-47-5)		
NOAEL (subacute, oral, animal/male, 28 days)	> 1500 mg/kg bodyweight (dog)	
1,3-diphenyl-2-thiourea (102-08-9)		
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight/day 28 d	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Likely routes of exposure	: Inhalation. Skin and eye contact.	
Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure.	
Symptoms/effects after inhalation	: May cause respiratory irritation. Irritation of the nasal mucous membranes.	
Symptoms/effects after skin contact	: Causes skin irritation. Redness. Repeated exposure may cause skin dryness or cracking.	
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include pain, blinking, tears and redness.	
Symptoms/effects after ingestion	 Swallowing a small quantity of this material will result in serious health hazard. Toxic if swallowed. Like any product not designed to be ingested, this product may cause stomach 	

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distress if ingested in large quantities. Diarrhea. Nausea. Vomiting.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Toxic to aquatic life with long lasting effects.
White mineral oil (8042-47-5)	
LC50 fish 1	3841 mg/l Oncorhynchus mykiss
1,3-diphenyl-2-thiourea (102-08-9)	
LC50 fish 1	18.9 mg/l 96 h Pimephales promelas
EC50 crustacea	67 mg/l 48 h Daphnia magna
EC50 Daphnia 2	10 mg/l 48 h Daphnia magna
NOEC chronic crustacea	0.15 mg/l 21 d Daphnia magna
12.2. Persistence and degradability	
Westco DPTU	
Persistence and degradability	May cause long-term adverse effects in the environment.
1,3-diphenyl-2-thiourea (102-08-9)	
Persistence and degradability	Not readily biodegradable.
BOD (% of ThOD)	0 % ThOD 28 d
12.3. Bioaccumulative potential	
Westco DPTU	
Bioaccumulative potential	Not established.
1,3-diphenyl-2-thiourea (102-08-9)	
Log Pow	2
12.4. Mobility in soil No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 12: Disposal consideration	
SECTION 13: Disposal consideration	15
13.1. Disposal methods Sewage disposal recommendations	· Do not diapage of waste into cower
Waste disposal recommendations	 Do not dispose of waste into sewer. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN2811 Toxic solids, organic, n.o.s. (1,3-diphenyl-2-thiourea), 6.1, III
UN-No.(DOT) Proper Shipping Name (DOT)	: UN2811
Proper Snipping Name (DOT)	: Toxic solids, organic, n.o.s.
Transport hazard class(es) (DOT)	1,3-diphenyl-2-thiourea : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 6.1 - Poison
	POISON
	6
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
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	DOT Packaging Bulk (49 CFR 173.xxx)	:	240
	DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
	DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	100 kg
	DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	200 kg
	DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
	Emergency Response Guide (ERG) Number	:	154
	Other information	:	No supplementary information available.
	Transport by sea		
	Transport document description (IMDG)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (1,3-diphenyl-2-thiourea), 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
	UN-No. (IMDG)	:	2811
	Proper Shipping Name (IMDG)	:	TOXIC SOLID, ORGANIC, N.O.S.
	Class (IMDG)	:	6.1 - Toxic substances
	Packing group (IMDG)	:	III - substances presenting low danger
	Limited quantities (IMDG)	:	5 kg
	Air transport		
	Transport document description (IATA)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (1,3-diphenyl-2-thiourea), 6.1, III, ENVIRONMENTALLY HAZARDOUS
	UN-No. (IATA)	:	2811
	Proper Shipping Name (IATA)	:	TOXIC SOLID, ORGANIC, N.O.S.
	Class (IATA)	:	6.1 - Toxic Substances
	Packing group (IATA)	:	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

White mineral oil (8042-47-5)			
Listed on the Canadian DSL (Domestic Substances List) inventory.			
1,3-diphenyl-2-thiourea (102-08-9)			
Listed on the Canadian DSL (Domestic Substances List) inventory.			

National regulations

No additional information available

15.3. US State regulations

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 information		
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	
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(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.

: None.

Full text of H-statements:

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	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	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
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	: X
	X - Special handling directions

SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc. 110 Polaris Pkwy Suite 200 Westerville, OH USA 43082 P: +1 (614) 923-7472 www.redstonegrp.com

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.