



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

**Product Name:** Westco DL-HTS

Other means of identification:

**Product Description:** Vulcanizing agent. Vulcanization stabilizer  
**Synonyms:** Hexamethylene-1,6-bis(thiosulfate), disodium salt, dihydrate, HTS

Recommended use of the chemical and restrictions on use:

Chemical distributor, or other responsible party Name, address, and telephone number:

**Distributor Name:** Western Reserve Chemical Corporation  
**Address:** 4837 Darrow Road  
Stow, OH 44224  
USA  
**General Phone Number:** 330 650 2244  
**General Fax Number:** 330 650 2255

Emergency phone number:

**Emergency Phone Number:** Chemtrec 1 800 424 9300 USA  
**Website:** www.wrchem.com

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

**GHS Pictograms:**



**Signal Word:** WARNING!

**GHS Class:** Skin Sensitizer, Category 1.

**Hazard Statements:** May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

**Precautionary Statements:** Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static discharge. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Skin:** May cause allergic skin reaction.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Hexamethylene-1,6-bis(thiosulfate), disodium salt, dihydrate	5719-73-3	>98.00 %	

### SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

**Eye Contact:** Immediately flush eye(s) with plenty of water. Get medical attention if symptoms occur.

**Skin Contact:** Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

**Inhalation:** If breathing is difficult, give oxygen. Get medical attention if symptoms occur.  
**Ingestion:** Rinse mouth. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

Indication of immediate medical attention and special treatment needed:

**Note to Physicians:** Treat symptomatically.  
**Notes :** May cause an allergic skin reaction.

## SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

**Suitable Extinguishing Media:** Water spray, water mist, dry chemical powder, foam, CO2  
**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical:

**Hazardous Combustion Byproducts:** Carbon oxides Sulfur oxides  
**Unusual Fire Hazards:** Emits toxic fumes under fire conditions.

Special protective equipment and precautions for fire-fighters:

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.  
**Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

**Personal Precautions:** Avoid contact with skin, eyes and clothing.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
Take precautionary measures against static discharge.  
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions:

**Environmental Precautions:** Avoid release to the environment. Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

**Methods for containment:** Sweep up and shovel into suitable containers for disposal.  
**Methods for cleanup:** Clear up spills immediately and dispose of waste safely. Avoid release to the environment.

## SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

**Handling:** Wear appropriate personal protective equipment.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Use only in area provided with appropriate exhaust ventilation.  
Minimize dust generation and accumulation.  
Take precautionary measures against static discharge.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. Follow good industrial hygiene practices when handling this material. When using, do not eat, drink or smoke.  
**Special Handling Procedures:** Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities:

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific end use(s):

**Work Practices:** Safety showers and eye wash stations should be available. Handle in accordance with good industrial hygiene and safety practices. Keep in a well-ventilated place.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

**Engineering Controls:** Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures:

**Eye/Face Protection:** Chemical splash goggles.

**Skin Protection Description:** Apron or coveralls should be used to prevent contact with skin or clothing.

**Hand Protection Description:** Protective gloves.

**Respiratory Protection:** Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

**PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State:** Solid

**Physical State Appearance:** Powder

**Color:** off-white

**Odor:** mild, musty

**Odor Threshold:** Not determined.

**Boiling Point:** Not determined.

**Melting Point:** 133 °C (decomposes)

**Density:** 1400 kg/m<sup>3</sup>

**Solubility:** 0.307 kg/m<sup>3</sup> (20 °C)

**Vapor Density:** Not applicable.

**Vapor Pressure:** Not determined.

**pH:** Not determined.

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>4</sub>·2(H<sub>2</sub>O)

**Coefficient of Water/Oil Distribution:** log Pow: -3.87  
og Pow: -4.72

**Flash Point:** Not determined.

**Lower Flammable/Explosive Limit:** 325 g/m<sup>3</sup>

**Upper Flammable/Explosive Limit:** Not determined.

**Auto Ignition Temperature:** Not determined.

## SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

**Chemical Stability:** Stable under recommended storage and handling conditions (see section 7).

Conditions To Avoid:

**Conditions to Avoid:** Heating > 100 °C: Product decomposes giving off toxic fumes.  
Minimize dust generation and accumulation.

Incompatible Materials:

**Incompatible Materials:** strong oxidizing agents

Hazardous Decomposition Products:

**Special Decomposition Products:** Emits acrid smoke and fumes when heated to decomposition.

## SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

**Acute Toxicity:** Oral LD50 rat: >5000 mg/kg.  
Dermal LD50 rabbit: >5000 mg/kg.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Eye:** Slightly irritating to eyes but not sufficient for classification.

**Skin:** Slightly irritating to skin but not sufficient for classification.  
**Sensitization:** Maximization test (guinea pig): Positive, 100%.  
**Carcinogenicity:** Not classified based on available information.  
**Mutagenicity:** Not mutagenic (in vitro, in vivo)  
**Reproductive Toxicity:** Not classified based on available information.

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecotoxicity:

**Ecotoxicity:** Toxicity to fish  
LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l Exposure time: 96 h  
LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h  
Toxicity to daphnia and other aquatic invertebrates  
LC50 (Daphnia magna (Water flea)): 80 mg/l Exposure time: 48h  
Toxicity to algae  
ErC50 (Selenastrum capricornutum (green algae)): > 107 mg/l Exposure time: 72 h  
NOEC: (Selenastrum capricornutum (green algae)): > 107 mg/l Exposure time: 72 h  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) EC50 (Daphnia magna (Water flea)): 250 mg/l Exposure time: 21 d  
NOEC: (Daphnia magna (Water flea)): 190 mg/l Exposure time: 21 d  
Toxicity to soil dwelling organisms  
NOEC: > 940 mg/kg

### Persistence and degradability:

**Biodegradation:** Biodegradation: < 10 %  
Method: Ready Biodegradability: CO2 Evolution Test  
Remarks: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 76 d  
Method: Inherent Biodegradability: Modified SCAS Test  
Remarks: Not biodegradable.

### Bioaccumulative potential:

**Bioaccumulation:** Bioaccumulation is unlikely.

### Mobility in soil:

**Mobility In Environmental Media:** Koc: 0.23 - 0.64, log Koc: < -0.19  
Method: OECD Test No. 106: Adsorption - Desorption Using a Batch Equilibrium Method

### Other adverse effects:

**Effect of Material On Aquatic Life:** Harmful to aquatic life with long lasting effects.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

**Waste Disposal:** Avoid discharge into the environment.  
Consult local regulations for disposal.  
**Contaminated Packaging:** Dispose of contaminated package according to local regulations.

## SECTION 14 : TRANSPORT INFORMATION

**DOT Shipping Name:** Not regulated as a dangerous good.

**DOT Pictograms:**



**IATA Shipping Name:** Not regulated as a dangerous good.

**IATA Pictograms:**



## SECTION 15 : REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product:

**TSCA Inventory Status:** On the inventory, or in compliance with the inventory  
**EINECS Inventory Status:** On the inventory, or in compliance with the inventory  
**Section 311/312 Hazard Categories:** Fire Hazard / Acute Health Hazard  
**Section 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
**Clean Air Act:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for

Accidental Release Prevention (40 CFR 68.130, Subpart F).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I  
Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act RQ:** This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.  
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.  
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Canada DSL:** On the inventory, or in compliance with the inventory

**Risk Phrases:** R53 - May cause long-term adverse effects in the aquatic environment. R43 - May cause sensitization by skin contact. R44 - Risk of explosion if heated under confinement.

**Safety Phrase:** S15 - Keep away from heat. S16 - Keep away from sources of ignition - No smoking. S23 - Do not breathe gas/fumes/vapour/spray. S36 - Wear suitable protective clothing. S37 - Wear suitable gloves. S38 - In case of insufficient ventilation, wear suitable respiratory equipment. S39 - Wear eye/face protection. S33 - Take precautionary measures against static discharges. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

## SECTION 16 : ADDITIONAL INFORMATION

### HMIS Ratings:

HMIS Health Hazard: 2  
HMIS Fire Hazard: 1  
HMIS Reactivity: 0  
HMIS Personal Protection: J

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	J

**SDS Creation Date:** July 30, 2018

**SDS Revision Date:** July 30, 2018

**Notes :** This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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