

## Duralink HTS

Version 2.0 PRD      Revision Date: 02/08/2019      SDS Number: 150000114090 SDSUS / Z8 / 0001      Date of last issue: -      Date of first issue: 02/08/2019

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## SECTION 1. IDENTIFICATION

Product name : Duralink HTS  
Product code : 34535-00, E3453501

**Manufacturer or supplier's details**

Company name of supplier : Eastman Chemical Company  
Address : 200 South Wilcox Drive  
Kingsport TN 37660-5280  
Telephone : (423) 229-2000  
Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

**Recommended use of the chemical and restrictions on use**

Recommended use : Industrial chemical  
Restrictions on use : None known.

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## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200**

Combustible dust

Skin sensitization : Category 1

**GHS label elements**

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**

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P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate	5719-73-3	98 - 99
white mineral oil	8042-47-5	0 - 2

**SECTION 4. FIRST AID MEASURES**

If inhaled : If breathing is difficult, give oxygen.  
Get medical attention if symptoms occur.

In case of 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.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Get medical attention if symptoms occur.

If swallowed : Rinse mouth.  
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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- Specific hazards during fire fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Runoff may pollute waterways.
- Hazardous combustion products : Carbon oxides  
Sulfur oxides  
  
No hazardous combustion products are known
- Further information : Minimize dust generation and accumulation.
- Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid contact with skin, eyes and clothing. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Local authorities should be advised if significant spillages cannot be contained.
- Environmental precautions : Clear up spills immediately and dispose of waste safely. Avoid release to the environment.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Minimize dust generation and accumulation.
- Advice on safe 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.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local

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exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal protective equipment**

- Respiratory protection : If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
- Hand protection
- Remarks : Protective gloves Skin should be washed after contact.
- Eye protection : Wear safety glasses with side shields (or goggles).
- Skin and body protection : Wear suitable protective clothing.
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wash contaminated clothing before reuse.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : solid
- Color : off-white
- Odor : mild, musty
- Odor Threshold : not determined
- pH : not determined
- Melting point/range : 261 - 279 °F / 127 - 137 °C  
: decomposes
- Flash point : not determined
- Evaporation rate : not determined
- Self-ignition : 453 °F / 234 °C

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Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	> 1
Solubility(ies)		
Water solubility	:	307 g/l insoluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Dust deflagration index (Kst)	:	112 m.b_/s
Dust explosion class	:	St 1 - weak explosion
Minimum ignition energy	:	260 - 1,000 J

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	Minimize dust generation and accumulation.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Emits acrid smoke and fumes when heated to decomposition.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Remarks: No data available  
Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Acute oral toxicity : LD50 Oral (Rat, Male and Female): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, Male and Female): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : Not classified as hazardous.  
Method : Draize Test  
Result : slight

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Species : Rabbit

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Result : slight  
 Assessment : Not classified  
 Method : Draize Test

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl-di(thiosulphate) dihydrate:**

Test Type : Skin Sensitization  
 Species : Guinea pig  
 Assessment : Skin sensitization  
 Method : OECD Test Guideline 406  
 Result : May cause sensitization by skin contact.

Test Type : Skin Sensitization  
 Species : Humans  
 Assessment : Skin sensitization  
 Method : Human Repeat Insult Patch Test  
 Result : May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Ingredients:****disodium S,S'-hexane-1,6-diyl-di(thiosulphate) dihydrate:**

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)  
 Metabolic activation: +/- activation  
 Method: Bacterial Reverse Mutation Assay  
 Result: negative

Test Type: Mutagenicity - Mammalian  
 Metabolic activation: +/- activation  
 Method: In vitro Mammalian Chromosome Aberration Test  
 Result: negative

Genotoxicity in vivo : Species: Rat  
 Application Route: oral: gavage  
 Method: Mammalian Bone Marrow Chromosome Aberration Test  
 Result: negative

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**Carcinogenicity**

Not classified based on available information.

**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.

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

**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.

**Reproductive toxicity**

Not classified based on available information.

**Product:**

Effects on fertility : Remarks: No data available

**STOT-single exposure**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Assessment : Not classified

**STOT-repeated exposure**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Assessment : Not classified

**Repeated dose toxicity****Product:**

Remarks : No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Species : Rat, Male and Female  
: 500 mg/kg  
NOAEL : 1,000 mg/kg



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Application Route : by gavage  
Exposure time : 90 days

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No data available

**Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Not applicable

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

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: 48 h

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

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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**Persistence and degradability****Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Biodegradability : 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****Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3.87

log Pow: -4.72

**Mobility in soil****Ingredients:****disodium S,S'-hexane-1,6-diyl di(thiosulphate) dihydrate:**

Distribution among environmental compartments : Koc: 0.23 - 0.64, log Koc: < -0.19  
Method: OECD Test No. 106: Adsorption - Desorption Using a Batch Equilibrium Method

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization

**SARA 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.

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

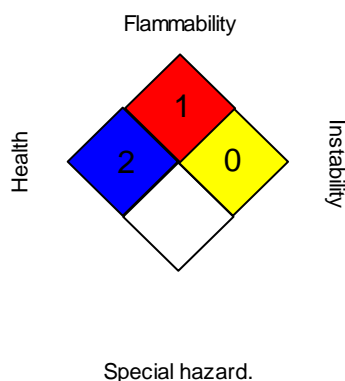
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## SECTION 16. OTHER INFORMATION

## Further information

## NFPA 704:



## HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

## Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -

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United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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