

Duralink(TM) HTS

Version Revision Date: SDS Number: Date of last issue: -

1.1 03/14/2018 150000093035 Date of first issue: 09/06/2016 PRD SDSUS / Z8 / 0001

SECTION 1. IDENTIFICATION

Product name : Duralink(TM) HTS

Product code : 34009-00, P3400900, P3400901, P3400902, P3400903,

P3400904

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.

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 : May form combustible dust concentrations in air.

H317 May cause an allergic skin reaction.

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/ protective clothing/ eye protection/

face protection.

P210 Keep away from open flames/hot surfaces. - No smoking.



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P243 Take precautionary measures against static discharge.

Response:

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 dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : Disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate

Ingredients

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

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



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Suitable extinguishing media

Water spray Foam Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

fire.

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 prod-

ucts

Carbon oxides Sulfur oxides

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

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

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.

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.

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.



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Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-

ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : off-white

Odor : mild, musty

Odor Threshold : not determined



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pH : not determined

Melting point/range : 127 - 137 °C

: decomposes

Evaporation rate : not determined

Flammability (solid, gas) : May form combustible dust concentrations in air.

Self-ignition : 234 °C

Upper explosion limit

not determined

Lower explosion limit : 325 g/m3

Vapor pressure : 33.5 hPa (40 °C)

Relative vapor density : not determined

Relative density : 1.40 (20 °C)

Density : 1.4 g/cm3

Solubility(ies)

Water solubility : 307 g/l insoluble (20 °C)

Partition coefficient: n-

octanol/water

: Not applicable

Autoignition temperature : not determined

Decomposition temperature : >= 250 °C

Method: DSC

Explosive properties : Not classified

Oxidizing properties : Not classified

Molecular weight : 354.41 g/mol

Dust deflagration index (Kst) : 112 m,b_/s

Dust explosion class : St 1 - weak explosion

Minimum ignition energy : 260 - 1,000 J

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.



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Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

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.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Ingredients:

disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Acute oral toxicity : LD50 Oral (Rat, Male and Female): > 5,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

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-diyldi(thiosulphate) dihydrate:

Species: Rabbit Exposure time: 24 h

Assessment: Not classified as hazardous.

Method: Draize Test

Result: slight



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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: No data available

Ingredients:

disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Species: Rabbit 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-diyldi(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-diyldi(thiosulphate) dihydrate:

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)

Metabolic activation: +/- activation

Method: Bacterial Reverse Mutation Assay

Result: negative



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: 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

Carcinogenicity

Not classified based on available information.

Product:

Remarks: This information is not available.

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-diyldi(thiosulphate) dihydrate:

Assessment: Not classified

STOT-repeated exposure

Not classified based on available information.

Product:

Remarks: No data available



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Ingredients:

disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Assessment: Not classified

Repeated dose toxicity

Ingredients:

disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Species: Rat, Male and Female

: 500 mg/kg

NOAEL: 1,000 mg/kg

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-diyldi(thiosulphate) dihydrate:

Not applicable

Information on likely routes of exposure

Product:

Inhalation : Remarks: None known.

Skin contact : Remarks: May cause an allergic skin reaction.

Eye contact : Remarks: None known.

Ingestion : Remarks: None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

disodium S,S'-hexane-1,6-diyldi(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



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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 (Chron-

ic 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 or-

ganisms

NOEC:: > 940 mg/kg

Ecotoxicology Assessment

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

Persistence and degradability

Ingredients:

disodium S,S'-hexane-1,6-diyldi(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-diyldi(thiosulphate) dihydrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: -3.87

log Pow: -4.72



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Mobility in soil

Ingredients:

disodium S,S'-hexane-1,6-diyldi(thiosulphate) dihydrate:

Distribution among environ-

mental 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

Product:

Ozone-Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: 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).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Ingredients CAS-No. Component TPQ (lbs)

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard



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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.

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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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

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

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

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

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.

SECTION 16. OTHER INFORMATION

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;



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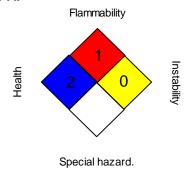
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ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification 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 -United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS® IV:



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.

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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



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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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