

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/3/2022 Revision date: 11/23/2022 Supersedes: 11/3/2022 Version: 1.1

## **SECTION 1: Identification**

## 1.1. Identification

Product form : Mixture

Product name : Lenium™ HT

Product code : LENHT

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleaning/washing agents and additives

Restrictions on use : Product for industrial use only

#### 1.3. Supplier

Vantage Specialties, Inc. 3938 Porett Drive Gurnee, IL 60031 USA

T+1847-244-3410

msds.pm.us@vantagegrp.com

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 1-703-527-3887

(collect calls accepted)

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (inhalation) Category 4 H332 Harmful if inhaled

Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

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

## 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 US classification
1,2-trans-Dichloroethylene	CAS-No.: 156-60-5		Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 STOT SE 3, H336 Aquatic Chronic 3, H412

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 : Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

## 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

## 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 : Use extinguishing agent suitable for surrounding fire.

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

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable

Explosion hazard : Heating will cause a rise in pressure with a risk of bursting.

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Hazardous decomposition products in case of fire

: Corrosive vapors. Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Hydrogen fluoride. Hydrogen chloride. Halogenated hydrocarbons.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Under fire conditions closed containers may rupture or explode. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into absorbent material.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Lenium™ HT**

No additional information available

### 1,2-trans-Dichloroethylene (156-60-5)

#### **USA - ACGIH - Occupational Exposure Limits**

Local name 1,2-Dichloroethylene, trans-isomer

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1,2-trans-Dichloroethylene (156-60-5)		
ACGIH OEL TWA [ppm]	200 ppm	
Remark (ACGIH)	TLV® Basis: CNS impair; eye irr	
Regulatory reference	ACGIH 2022	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

#### Personal protective equipment symbol(s):









#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Water-white
Odor : ether-like
Odor threshold : No data available

pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : 46.8 °C

Flash point : does not flash
Relative evaporation rate (butyl acetate=1) : No data available
Flammability : Not applicable.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available

Relative density : 1.29

Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : 372 °C

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

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Explosion limits : No data available

Explosive properties : Intense heat may cause container to burst.

Oxidizing properties : None reported.

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

1,2-trans-Dichloroethylene (156-60-5)		
LD50 oral rat	1235 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 Inhalation - Rat	96.943 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
LC50 Inhalation - Rat [ppm]	24100 ppm/4h	

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

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1,2-trans-Dichloroethylene (156-60-5)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
Viscosity, kinematic :	No data available	

Symptoms/effects after eye contact : Eye irritation.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Symptoms/effects

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

: May cause drowsiness or dizziness.

effects in the environment.

1,2-trans-Dichloroethylene (156-60-5)		
LC50 - Fish [1]	135 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 - Crustacea [1]	220 mg/l Source: ECHA	

## 12.2. Persistence and degradability

1,2-trans-Dichloroethylene (156-60-5)	
Persistence and degradability	Readily biodegradable in water.

## 12.3. Bioaccumulative potential

1,2-tran	s-Dichloroethylene (156-60-5)	
Partition of	coefficient n-octanol/water (Log Pow)	1.48
Bioaccum	nulative potential	Low potential for bioaccumulation (Log Kow < 4).

## 12.4. Mobility in soil

1,2-trans-Dichloroethylene (156-60-5)	
Surface tension	25 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

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DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
Transport document description			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

## 14.6. Special precautions for user

#### DOT

No data available

#### **TDG**

No data available

#### **IMDG**

No data available

#### IATA

No data available

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

Not applicable

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

## 1,2-trans-Dichloroethylene (156-60-5)

CERCLA RQ 1000 lb listed under 1,2-Dichloroethylene

## 15.2. International regulations

No additional information available

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#### 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**

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Full text of H-phrases	
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant

irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including

intrinsically noncombustible materials such as concrete, stone, and sand.

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NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire

conditions.

1 0

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

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 : B - Safety glasses, Gloves

Vantage - Safety Data Sheet (SDS), USA

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