



Issue Date 12-23-2014

Revision date 12-23-2014

Revision Number 2

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product identifier**

Product name **HE-2**

**Other means of identification**

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

Material Uses Coolant.  
Uses advised against Verify Applications

**Details of the supplier of the safety data sheet**

**Manufacturer**

Hangsterfer's Laboratories, Inc., 175 Ogden Road, Mantua, NJ 08051; Phone 856-468-0216, Fax 856-468-0200, Website: [www.hangsterfers.com](http://www.hangsterfers.com)

**Emergency telephone number**

Emergency telephone number Chemtrec 1-800-424-9300 in US  
Canutec 1-613-996-6666 in Canada  
For international assistance, dial Chemtrec US number 1-703-527-3887

## 2. Hazards Identification

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1). Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

**Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label Elements**

### EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Green **Physical state** Liquid **Odor** Mild

**Hazards not otherwise classified (HNOC)**

**Other Information**

• No known effect

## 3. Composition/information on Ingredients

Chemical Family Soluble Oil.

## 4. First aid measures

**First aid measures**

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.
<b>Skin contact</b>	Wash skin with soap and water. Consult a physician if necessary.
<b>Inhalation</b>	Remove to fresh air. Consult a physician if necessary.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	None known.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. Fire-fighting measures****Suitable extinguishing media**

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

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

**Specific hazards arising from the chemical**

May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products** Carbon oxides. HCl.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Remove all sources of ignition. Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.
<b>Other Information</b>	Report spills as required to the appropriate authorities.

**Environmental precautions**

<b>Environmental precautions</b>	No unusual hazard.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
<b>Methods for Clean-Up</b>	Take up mechanically, placing in appropriate containers for disposal.

**7. Handling and Storage****Precautions for safe handling**

<b>Handling</b>	Avoid contact with eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.
<b>Incompatible materials</b>	Acids and oxidizing agents.

**8. Exposure Controls/Personal Protection****Control parameters**

<b>Exposure guidelines</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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**Appropriate engineering controls**

<b>Engineering controls</b>	Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m <sup>3</sup> ; ACGIH TLV STEL: 10 mg/m <sup>3</sup> ; OSHA PEL TWA: 5 mg/m <sup>3</sup> ).
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Use protective gloves and clothing if contact with product is likely.
<b>Respiratory protection</b>	If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Green	<b>Odor threshold</b>	Not determined
<b>Color</b>	Green		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	9.1		
<b>Melting point / freezing point</b>	-	May begin to solidify at 0 °C / 32 °F	
<b>Boiling point</b>	193 °C / 379 °F		
<b>Flash point</b>	160 °C / 320 °F	Cleveland Open Cup	
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No unusual hazard		
<b>Lower flammability limit</b>	No unusual hazard		
<b>Vapor pressure</b>	<0.01 mmHg @ 20 °C		
<b>Vapor density</b>	> 5		
<b>Specific gravity</b>	0.99		
<b>Water solubility</b>	Soluble in water		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient</b>	No information available		
<b>Autoignition temperature</b>	No unusual hazard		
<b>Decomposition temperature</b>	No unusual hazard		
<b>Kinematic viscosity</b>	250 cSt @ 40°C / 1180 SUS @ 100°F		
<b>Dynamic viscosity</b>	No information available		
<b>VOC Content, % Vol</b>	Request additional information		

## 10. Stability and Reactivity

### Reactivity

No unusual hazard

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal use conditions.

**Hazardous polymerization**      Hazardous polymerization does not occur.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials

Acids and oxidizing agents.

### Hazardous decomposition products

Carbon oxides, HCl.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known information
<b>Inhalation</b>	No unusual hazard.
<b>Eye contact</b>	No unusual hazard.
<b>Skin contact</b>	No unusual hazard.
<b>Ingestion</b>	No unusual hazard.

### Information on toxicological effects

**Symptoms**      None known.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	OECD 404 - Non-irritating and non-corrosive (rabbit).
<b>Serious eye damage/eye irritation</b>	No unusual hazard.
<b>Sensitization</b>	No known effect.
<b>Mutagenic Effects</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.
<b>Reproductive effects</b>	No known effect.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic toxicity</b>	No known effect.
<b>Aspiration Hazard</b>	No unusual hazard.

### Numerical measures of toxicity - Product Information

**Oral LD50**      > 15000 mg/kg (rat)

## 12. Ecological Information

### Ecotoxicity

No unusual hazard

**Persistence/Degradability**

No unusual hazard

**Bioaccumulation/ Accumulation**

No unusual hazard.

**Other adverse effects**

None known

### 13. Disposal Considerations

**Waste treatment methods**

**Waste Disposal Method**

Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. Transport Information

**DOT**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**TDG**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**IMDG/IMO**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**ADR/RID**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>ADR/RID-Labels</b>	Not regulated
<b>Description</b>	Not regulated

**IATA**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not applicable
<b>Hazard Class</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Description</b>	Not regulated

PG\* : Packing group

**15. Regulatory information****US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. Regulations & Inventories****California Proposition 65**

An ingredient contained within this product is listed under California Proposition 65.

**U.S. State Right-to-Know Regulations**

No regulatory requirements found. All components of this product are either listed on the TSCA inventory or are exempt from listing requirements.

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

**16. Other information**

<b>NFPA</b>	<b>HEALTH</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical hazard</b> -
<b>HMIS</b>	<b>HEALTH</b> 1	<b>Flammability</b> 1	<b>Physical Hazards</b> 0	<b>Personal Protection</b> -

**Issue Date** 12-23-2014  
**Revision date** 12-23-2014  
**Revision Summary**

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**