



HANGSTERFER'S[®]

Research, Development & Manufacturing of Metalworking Lubricants

Safety Data Sheet

Issue Date 05-13-2015

Revision date 08-05-2014

Revision Number 1

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

Product identifier

Product name

Rust Coat H-129

Other means of identification

Recommended use of the chemical and restrictions on use

Material Uses

Corrosion inhibitor.

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

Emergency telephone number

Emergency telephone number

Chemtrec 1-800-424-9300 in US/Canada 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

Carcinogenicity

Category 2

Label Elements

EMERGENCY OVERVIEW

WARNING

Hazard statements

Suspected of causing cancer



Appearance Golden

Physical state Liquid

Odor Bland.

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

- No additional remarks

3. Composition/information on Ingredients

Chemical Family Petroleum Hydrocarbon.

Chemical name	CAS-No	Weight-%
Triethanolamine	102-71-6	30
Diethanolamine	111-42-2	0.3

4. First aid measures**First aid measures**

- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician if necessary.
- Skin contact** Wash with plenty of water and soap. Consult a physician if necessary.
- Inhalation** Remove to fresh air. Consult a physician if necessary.
- Ingestion** Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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.

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**

Personal precautions Remove all sources of ignition. Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

Other Information Report spills as required to the appropriate authorities.

Environmental precautions

Environmental precautions No unusual hazard.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take all appropriate steps to avoid contamination of ground water.

7. Handling and Storage

Precautions for safe handling

Handling Avoid contact with eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Incompatible materials Acids and oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine 102-71-6	TWA: 5 mg/m ³	-	
Diethanolamine 111-42-2	TWA: 2 mg/m ³ Skin	-	

Appropriate engineering controls

Engineering controls 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/m³; ACGIH TLV STEL: 10 mg/m³; OSHA PEL TWA: 5 mg/m³).

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields.

Skin and Body Protection Use protective gloves and clothing if contact with product is likely.

Respiratory protection If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.

General hygiene considerations Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance	Golden	Odor	Bland.
Color	Golden	Odor threshold	Not determined
Property	Values	Remarks • Method	
pH	8.3		
Melting point / freezing point	-	May begin to solidify at -21 °C / -5.8 °F	
Boiling point	232 °C / 450 °F		
Flash point	193 °C / 379 °F	Cleveland Open Cup	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit	No unusual hazard		
Lower flammability limit	No unusual hazard		
Vapor pressure	No information available		
Vapor density	> 1		
Specific gravity	1.14		
Water solubility	Soluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No unusual hazard		
Decomposition temperature	No unusual hazard		
Kinematic viscosity	48 cSt @ 40°C / 220 SUS @ 100°F		
Dynamic viscosity	No information available		
VOC Content, % Vol	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.

11. Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation	No unusual hazard.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triethanolamine 102-71-6	= 4190 mg/kg (Rat)	> 20 mL/kg (Rabbit) > 16 mL/kg (Rat)	
Diethanolamine	= 0.62 mL/kg (Rat) = 620 µL/kg (= 7640 µL/kg (Rabbit)	

111-42-2	Rat)		
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Information on toxicological effects

Symptoms No information available.

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

Skin corrosion/irritation May cause slight irritation.
Serious eye damage/eye irritation May cause eye irritation.
Sensitization May cause sensitization in susceptible persons.
Mutagenic Effects No known effect.
Carcinogenicity No information available.

Chemical name	ACGIH	IARC	NTP Carc	OSHA
Triethanolamine 102-71-6	Not Listed	Group 3		
Diethanolamine 111-42-2	Not Listed	Group 2B		X

Reproductive effects No known effect.
STOT - single exposure No information available.
STOT - repeated exposure Alkanolamines may cause liver and kidney effects with repeated exposure.
Chronic toxicity Alkanolamines may cause liver and kidney effects with repeated exposure.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

Oral LD50 > 10000 mg/kg (rat)
Dermal LD50 > 2000 mg/kg (rabbit)

12. Ecological Information**Ecotoxicity**

5% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50
Diethanolamine 111-42-2	7.8: 72 h Desmodesmus subspicatus mg/L EC50 2.1 - 2.3: 96 h Pseudokirchneriella subcapitata mg/L EC50	4460 - 4980: 96 h Pimephales promelas mg/L LC50 flow-through 600 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1200 - 1580: 96 h Pimephales promelas mg/L LC50 static	EC50 = 73 mg/L 5 min	55: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Most ingredients of this material have some potential to biodegrade, but not all have been tested

Chemical name	Log Pow
Triethanolamine 102-71-6	-2.53
Diethanolamine 111-42-2	-2.18

Other adverse effects No additional remarks

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**

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

TDG

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

IMDG/IMO

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

ADR/RID

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

IATA

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Labels	Not regulated
Packing group	Not regulated
Description	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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Triethanolamine - 102-71-6	102-71-6	30	
Diethanolamine - 111-42-2	111-42-2	0.3	

SARA 311/312 Hazard Categories

Acute health hazard	yes
Chronic Health Hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Hazardous Substance Required Qty
Diethanolamine 111-42-2	100		RQ= 100lb final RQ RQ= 45.4kg final RQ

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

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Diethanolamine - 111-42-2	Carcinogen

U.S. State Right-to-Know Regulations

The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the TSCA inventory or are exempt from listing. See Section 16 for explanation of column headings.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Triethanolamine 102-71-6	X	X	X
Diethanolamine 111-42-2	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

CANADA

Chemical name	NPRI
Diethanolamine	X

16. Other information

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

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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