

SDS - Safety Data Sheet



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ECOSE® Elite HT Red Grease No. 2
Other means of identification: ECOSE® HT Red No. 2 Grease
SDS Number: 544015
CAS Number: Blend
CHEMTREC: 1-800-424-9300 (For emergencies)

Supplier:
 Nu-Tier Brands, Inc.
 8282 S. Memorial Dr., Suite 302
 Tulsa, OK 74133
 1-877-771-5823 (For Product Information)
 www.nu-tierbrands.com

2. HAZARDS IDENTIFICATION

This product contains hazardous material as defined by the OSHA Hazard Communication Standard CFR 1910.1200.

Label Elements	
	<p>GHS Signal Word: WARNING</p> <p>Classified Hazards</p>
	<p>GHS Classifications:</p> <p>Health, Acute toxicity, Oral, 4 Health, Acute toxicity, Inhalation, 4 Health, Skin corrosion/irritation, 2 Health, Serious eye damage/eye irritation, 1</p> <p>GHS Phrases:</p> <p>H302/332 – Harmful if swallowed or inhaled H315 – Causes skin irritation H318 – Causes serious eye damage H335 – May cause respiratory irritation</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration	H or R Phrase	Comment
Antimony Dialkyldithiocarbamate	--	≤ 5%	H302/332	Refer Section 2.2 for details
Zinc alkyldithiophosphate	Confidential	≤ 3%	H315, H318	Refer Section 2.2 for details

4. FIRST AID MEASURES

INHALATION FIRST AID: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

SKIN CONTACT FIRST AID: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

EYE CONTACT FIRST AID: Flush with water for several minutes. If effects occur, consult a physician.

INGESTION FIRST AID: Rinse mouth with water. If symptoms develop, obtain medical attention.

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5. FIREFIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1 Flammability: 1 Instability: 0



0 (Minimal)
1 (Slight)
2 (Moderate)
3 (Serious)
4 (Severe)

Flash Point Minimum: 400°F / 204°C
Flash Point Test Method: COC, ASTM D92

Extinguishing Media:

Suitable extinguishing media: Water spray (fog), dry chemical, foam, or carbon dioxide, sand to extinguish flames.

Unsuitable extinguishing media: Water stream may splash burning liquid and spread fire.

Specific hazards arising from the substances or mixture:

Hazardous combustion product may include a complex mixture of airborne solid and liquid particulates and gases (smoke), carbon monoxide, unidentified inorganic and organic compounds.

Advice to firefighters: Proper protective equipment include chemical resistant gloves to be worn, chemical resistant suit is recommended when large contact with spill product is expected. Self-contained breathing apparatus (SCBA) must be worn when approaching a fire in confined area. Select the fire fighters clothing approved by relevant standard.

6. ACCIDENTAL RELEASE MEASURES

Contain spilled material.
Collect in suitable and properly labeled containers.
Pick up excess with inert absorbent material.
Keep away from drains and ground water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Avoid contact with eyes, skin, or clothing.
Keep away from sources of ignition.
Handle with care and avoid spillage on the floor (slippage).

STORAGE REQUIREMENTS:

Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

PERSONAL PROTECTIVE EQUIPMENT:

Use of safety glasses and gloves are recommended.

Chemical Name	ACGIH	AIHA WEEL	Other
Lithium Hydroxide mono-hydrate		Ceiling: 1.8mg/m ³	
Mineral Oil	TWA – vacated and TWA	5.0 mg/m ³	
Antimony dialkyldithiocarbamate	TWA – vacated and TWA	0.5 mg/m ³	
Zinc alkyl dithiophosphate	TWA 5.0mg/m ³		

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Additional information: Due to semi-solid nature of the product, generation of mist and dusts is unlikely to occur.

Biological exposure index (BEI): No biological limit allocated.

PNEC related information: Data not available.

Monitoring methods: Monitoring of the concentration of substances in the breathing zone of workers or in general workplace may be required to confirm the compliance with local governing authority.

Engineering measures/controls: Adequate ventilation systems may be needed to control concentrations of airborne contaminants above permissible threshold applicable limits.

Personal protective equipment pictograms:



Respiratory: In case of insufficient ventilation, use suitable respiratory equipment.

Eye/Face: Wear safety goggles.

Skin/Body: Wear safety shoes and protective gloves.

Environmental Exposure Controls: Minimize release to the environment. Follow best practices for site management and disposal of waste as per local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Data represents typical values and are not intended to be specifications.

Appearance:	Red
Physical State:	Semi-solid
Odor:	Slight hydrocarbon

General Properties

Boiling Point:	No data available
Specific Gravity (15°C):	0.87, 7.506 (lbs/gal)
Flash Point, COC, °F/°C:	400/204
Upper/lower flammability limits:	No data available
VOC, % wt., ASTM D-972:	1
Vapor Pressure @ ambient temp:	<0.13 kPa (< 1 mm Hg)
Vapor Density (air = 1):	<1
Explosive Properties:	Not classified

Other Information

Electrical conductivity:	Though no data available, this material is not expected to be a static accumulator.
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10. STABILITY AND REACTIVITY

REACTIVITY: Not chemically reactive.

CHEMICAL STABILITY: Stable under normal ambient and anticipated conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions not anticipated.

CONDITIONS TO AVOID: Avoid all possible sources of ignition. Extended exposure to high temperatures can cause decomposition.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not anticipated under normal conditions of use

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Basis of assessment:	Information given hereby is based on the components and the toxicology of similar products and the data indicated here are representative of the product as whole rather than for individual components.
Acute oral toxicity:	Expected to be low toxicity: LD 50 (rat) >5000 mg/kg
Acute dermal toxicity:	Expected to be low toxicity: LD 50 (rat) >3000 mg/kg
Acute inhalation toxicity:	Not determined
Skin corrosion/irritation:	Expected to be slightly irritating. Prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin, and may result in disorders such as oil acne/folliculitis.
Serious eye damage/irritation:	Expected to be slightly irritating.
Respiratory/skin sensitization:	Not determined
Aspiration hazard:	Not expected to be an aspiration hazard.
Germ cell mutagenicity:	Not expected to be a mutagenic hazard.
Carcinogenicity:	Not considered to be carcinogenic as it contains severely hydrotreated mineral oils which are reported to be non-carcinogenic in lab animal studies. The class of oils used in making this product are not classified as carcinogenic by IARC.

Material

Highly refined base oil blend
(IP 346 < 3%)

Carcinogenicity Classification

ACGIH group A4: not classified as human carcinogen

IARC 3; not classified as to carcinogen to humans
GHS/CLP, no carcinogenicity classification

Based on our raw material suppliers information/SDS, this material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP).

12. ECOLOGICAL INFORMATION

Information on ecological effects:

Basis of assessment:	Eco-toxicological data has not been determined specifically on this product. The information given herewith are based on the information given on eco-toxicity of components and/or on similar products. The information given here are representative of the product as whole and not as individual components.
Toxicity:	Sparingly soluble mixture in aqueous media. Not toxic to fish but may coat gill structure and cause suffocation if spilled. This product may cause gastrointestinal distress in birds and mammals through ingestion.
Persistence and degradability:	Expected to be not readily biodegradable. The major oil component expected to biodegrade over a period of 100-120 days in aerobic environment at temperatures above 70°F (21°C), however finished product contains components that may persist in the environment.
Bioaccumulative potential:	May contain components that bioaccumulate.
Mobility in soil:	Product is semi-solid in nature in most conditions and may absorb to soil and may not be mobile. It floats on water.
Other adverse effects:	Product contains the components that have been classified non-volatile in nature and therefore not expected to release to environment in significant quantities.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product Disposal: Try to minimize the product waste by using best applicable practices. It is the responsibility of the waste generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation. Do not dispose into environment, in drain or in river/ponds/water reservoirs.



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Container Disposal: To be disposed in accordance with local prevailing and allowable regulations.

14. TRANSPORTATION INFORMATION

Not regulated by DOT
ADR, IMDG, IATA-DGR: 3082, Contain environmentally hazardous substance, Antimony dialkyldithiocarbamate ($\leq 5\%$) which could possibly be marine pollutant

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard: This material is considered hazardous in accordance with OSHA HAzCom 2012, 29 CFR 1910.1200.

US Inventory list: All components are listed or exempted.
(TSCA 8b)

SARA (302-304): No products were found

SARA (311/312):

Classification: Immediate (acute) health hazard, delayed (chronic) health hazard

Component	Fire Hazard	Sudden release of pressure	Reactive	Acute health hazard	Delayed health hazard
Base Oil	No	No	No	No	Yes
Lithium hydroxide	No	No	No	Yes	Yes
Antimony dialkyldithiocarbamate	No	No	No	Yes	No

SARA (313) Toxic Release Inventory: This material may contain chemical(s) regulated under SARA. For specific question contact Nu-Tier Brands, Inc. customer service.

Massachusetts: None of the components are listed.

New York: None of the components are listed.

New Jersey: Lithium hydroxide, antimony compounds are listed.

WHMIS: This product is not a controlled product.

Canadian NPRI: None of the components are listed.

CEPA toxic substance: None of the components are listed.

Canadian inventory list: All components are listed or exempted.

16. OTHER INFORMATION

The data in this Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc.. The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF SDS