

HMIS RATING	
Health	2
Flammability	4
Reactivity	0

MATERIAL SAFETY DATA SHEET
 (Complies with OSHA Communication Standard 29 CFR 1910.1200 Dept. of Labor)
 Form approved OMB No. 1218-0072
 OSHA 174 - Sept. 1985

Health	2
Flammability	4
Reactivity	0

IDENTITY:

ENDURA

HEAVY DUTY PENETRATING GREASE**PART# 1630**

Marketer's Name Must Appear Below

DOT Shipping - Consumer Commodity ORM-D

Manufacturer's Name Castle Products Inc.	Emergency Telephone Number (216) 487-4186
Address 235 Surrey Run	Telephone Number for Information (716) 631-5216
Williamsville, NY 14221	Date Prepared 5/16/94 Checked <input checked="" type="checkbox"/>

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	STEL	% (optional)
Hexane (110-54-3)	50	50	-	40-50
Paraffinic Petroleum Distillates (64742-65-0)	5mg/m ³	5mg/m ³	10mg/m ³	10-20
Aliphatic Hydrocarbon Mixture (64742-63-8)	-	5mg/m ³	-	1-10
Petrolatum (8009-03-8)	NOT ESTABLISHED			1-10
Propane/Isobutane/n-Butane (74-98-6)	1000	1000	Asphyxiant	20-30
Non-hazardous	-	-	-	1-10

All chemical compounds marked with an Asterisk () are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet.

Section III - Physical/Chemical Characteristics

Boiling Point Range	1.75°F to 2500°F	Specific Gravity (H ₂ O = 1)	0.7
Vapor Pressure PSIG @ 70°F	NI	Melting Point PH	Liquid NA
Vapor Density (AIR = 1) Heavier than Air	4.0	Evaporation Rate (Butyl Acetate = 1)	>1
Solubility in Water NI	Appearance and Odor Clear/Solvent		

Section IV - Fire and Explosion Hazard Data NFPA 308 Rating: 3

Flash Point (Method Used)	-123°F. TIC	Flammable Limits	ND	LEL	UEL
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Extinguishing Media Use water fog, dry chemical or carbon dioxide

Special Fire Fighting Procedures
Aerosol cans may rupture when heated

Unusual Fire and Explosion Hazards

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	High Temperatures

Incompatibility (Materials to Avoid)
 Incompatible with strong oxidizers, alkali metals, interhalogen compounds.

Hazardous Decomposition or Byproducts
 In fire, will decompose to carbon dioxide, water, hydrogen fluoride, perfluoro hydrocarbons, sulfur compounds, calcium oxide, aldehydes, ketones.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	None

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Effects are reversible.

Long term exposure (years) to high concentrations of vapor may cause lung, liver or kidney damage. The solvents

listed have been reported to affect the central nervous system.

Aspiration hazard if swallowed. Eye and skin irritant.

May irritate respiratory tract.

Hexane may damage peripheral nerve tissue.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	Presently not on any list.		

Signs and Symptoms of Exposure

Inhalation - Difficulty in breathing. Skin-irritation. Ingestion-vomiting.

Medical Conditions

Generally Aggravated by Exposure: Heart Disease; Respiratory Disorders.

Emergency and First Aid Procedures

Give oxygen - Do not induce vomiting - Gastric lavage - Wash eyes and skin with water.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

Waste Disposal Method

Dispose as hazardous waste in accordance with EPA RCRA.

Precautions to be Taken in Handling and Storing

Keep away from heat, sparks, or open flame. Store at temperatures below 120°F.

Other Precautions When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Self contained breathing apparatus if above TLV limit exceeding.

Ventilation	Local Exhaust	Yes	Special	None
	Mechanical (General)	None	Other	None

Protective Gloves

None required if spraying

Eye Protection

Wear eye protection