

MANUFACTURER
 Castle Products, Inc.
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MATERIAL SAFETY DATA SHEET

Hazard: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
 Protection: A-Goggles, B-Goggles & gloves,
 C-Goggles, gloves, & protective wear.
 Other: NA-Not Applicable, ND-Not Determined,
 NE-Not Established.

HAZARD RATING

Health 2
 Fire 4
 Reactivity 0
 Protection B

SECTION I DESCRIPTIONTRADE NAME: **Castle® Thrust™**

PRODUCT TYPE: Heavy Duty Penetrating Oil

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PEL	TLV	STEL	%
Petroleum Distillate	64742-81-0	5 mg/m3	NE	NE	10-30 %
Paraffinic naphthenic oil	64742-52-5	5 mg/m3	NE	NE	30-60 %
Ethyl acetate	141-78-6	400 ppm	NE	NE	1-5 %
Propane	74-98-6	1000 ppm	NE	NE	7-15 %
Iso-Butane	75-28-5	1000 ppm	NE	NE	5-10 %

SECTION III PHYSICAL DATA

BOILING POINT:	75.5C	SPECIFIC GRAVITY (H2O=1):	0.88-0.89
VAPOR PRESSURE:	55-65 PSIG@20C	PERCENT VOLATILE BY VOL %:	NE
VAPOR DENSITY (AIR=1):	< 1	EVAPORATION RATE:	< 1
SOLUBILITY IN WATER:	Negligible	APPEARANCE & ODOR:	Dark amber / Characteristic

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): -4C (Closed Cup) LOWER FLAMMABLE LIMIT: 2.0 % UPPER FLAMMABLE LIMIT: 10.7%
 EXTINGUISHING MEDIA: Small fire: Use dry chemicals, carbon dioxide, or foam. Large fire: Use foam or water fog.
 UNUSUAL FIRE & EXPLOSION HAZARDS: Contents under pressure. Container may explode if heated. Product is extremely flammable. Impact of aerosol cans, as well as static discharge, can cause risk of explosion. Vapors of this product may form a flammable/explosive mixture with air in enclosed areas when vapors present are between the lower and upper explosive limits and come into contact with flames, sparks, or static discharge. Do NOT expose cans to flames, heat, or any other sources of ignition.
 SPECIAL FIRE FIGHTING PROCEDURES: Cool containing vessels with water spray in order to prevent pressure build-up, auto ignition, or explosion. Avoid spreading burning liquid with water used to cool containers. Wear self-contained breathing apparatus (MSHA / NIOSH approved or equivalent) and full protective gear.

SECTION V HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, inhalation, and ingestion.
 EFFECTS OF OVEREXPOSURE: • Eyes: May cause irritation, redness, and tearing. • Skin: Irritation, defatting, drying, and cracking of skin. • Inhalation: Vapors may be irritating to nose, throat, and respiratory tract. Excessive inhalation of vapors may cause central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness. Can be fatal if inhaled. • Ingestion: Can be fatal if ingested. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.
 EMERGENCY & FIRST AID PROCEDURES: • Eyes: Flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. Get medical attention. • Skin: Wash thoroughly with soap and water. If irritation persists, get medical attention. Remove affected clothing and wash before reuse. • Inhalation: Remove affected person to fresh air. If having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Get immediate medical attention.
 • Ingestion: If swallowed, call physician or poison control immediately. Do NOT induce vomiting. Rinse mouth with water. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis, which can be fatal.

SECTION VI REACTIVITY DATA

STABILITY: Stable under normal conditions.
 INCOMPATIBILITY (materials to avoid): Strong oxidizing agents, strong acids, and strong alkalis.
 HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO and CO₂) and other irritating gases.

SECTION VII SPILL OR LEAK PROCEDURES

IF RELEASED OR SPILLED: Ventilate area and eliminate all sources of ignition. Keep away from heat. Absorb spill with DRY inert material. Place in appropriate waste disposal container.

WASTE DISPOSAL METHOD: Dispose as hazardous waste in accordance with federal, state, and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION: LOCAL XXXXX MECHANICAL OTHER
 RESPIRATORY PROTECTION: If ventilation is inadequate, use an appropriate respirator.
 EYE PROTECTION: Safety glasses or goggles.
 PROTECTIVE GLOVES: Chemical resistant gloves.
 OTHER PROTECTIVE EQUIPMENT: Follow standard industrial clothing standards.

SECTION IX SPECIAL PRECAUTIONS

HANDLING & STORING PRECAUTIONS: Store in cool, dry place. Do not puncture or incinerate container. Do not store at temperatures over 50°C or in direct sunlight. Wash thoroughly after handling. Keep away from heat, sparks, open flame, and any other source of ignition. Store at temperature below 120°F. Keep from freezing.