

**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 DESCRIPTION**TRADE NAME: **Castle<sup>®</sup> Long Life<sup>™</sup>**

PRODUCT TYPE: Battery Protector

**SECTION II HAZARDOUS INGREDIENTS**

INGREDIENT	CAS #	PEL	TLV	STEL	%
Heptanes	64742-49-0	500 ppm	400 ppm	500 ppm	40-50 %
Propane/Isobutane/n-Butane	68476-86-8	NE	NE	NE	30-40%
Distillates, petroleum, hydrotreated nap	64742-52-5	5 mg/m3	5 mg/m3	10 mg/m3	10-20 %
Residual oils, petroleum, severely refin	64742-01-4	100 ppm	100 ppm	NE	1-10 %
Corrosion inhibitor	Mixture	100 ppm	100 ppm	NE	1-10%
Mineral spirits	8052-41-3	100 ppm	100 ppm	NE	1-10 %

**SECTION III PHYSICAL DATA**

BOILING POINT:	-23°F - 387°F	SPECIFIC GRAVITY (H <sub>2</sub> O=1):	0.8523 @ 20C
VAPOR PRESSURE:	ND	VOCS	77.57%
VAPOR DENSITY:	Heavier than air	EVAPORATION RATE (Butyl Acetate=1):	Faster than Butyl Acetate
SOLUBILITY IN WATER:	Negligible	APPEARANCE & ODOR	Purple / Solvent

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (method used): -141°F (TCC)      LOWER EXPLOSIVE LIMIT: 0.7 %      UPPER EXPLOSIVE LIMIT: 9.5 %  
EXTINGUISHING MEDIA: Alcohol foam, CO<sub>2</sub>, dry chemical foam, or water fog.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Avoid all sources of ignition, welding arcs, and open flames. Vapors can travel to source of ignition and flash back. "Empty" cans may retain product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, or grind cans. Do not expose cans to heat, flame, sparks, static electricity, or other sources of ignition. Heated cans may build up pressure and explode; can cause injury or death.  
SPECIAL FIRE FIGHTING PROCEDURES: 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: Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. • Eyes: may cause irritation, pain, tearing, reddening, swelling, and stinging. • Skin: defatting, drying, irritation, and rash. • Inhalation: Prolonged inhalation may be harmful. • Ingestion: harmful or fatal. Aspiration hazard.  
EMERGENCY & FIRST AID PROCEDURES: • Eyes and skin: Flush immediately with plenty of water. Get immediate medical attention. Remove affected clothing and wash separately before reusing. • Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. • Ingestion: Do NOT induce vomiting. Call physician or poison control immediately. Never give food or drink to an unconscious person.

**SECTION VI REACTIVITY DATA**

STABILITY: Avoid all sources of ignition, welding arcs, and open flames.  
INCOMPATIBILITY (materials to avoid): Strong oxidizing agents such as chlorates, nitrates, peroxides, etc.  
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.  
HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, oxides of carbon, oxides of nitrogen, phosphorous, and/or sulfur are possible.

**SECTION VII SPILL OR LEAK PROCEDURES**

IF RELEASED OR SPILLED: Absorb spill with inert material (such as dry sand or earth). Dispose in chemical waste container.  
WASTE DISPOSAL METHOD: Dispose in accordance with federal, state, and local regulations.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

VENTILATION: LOCAL XXXXX      MECHANICAL      OTHER  
RESPIRATORY PROTECTION: If airborne concentrations are expected to exceed exposure limits (listed above), a NIOSH / MSHA approved air-purifying respirator may be permissible. If potential for uncontrolled release, exposure levels are unknown, or if air-purifying respirators may not provide adequate protection, use self-contained, positive pressure air-supplied respirator.  
EYE PROTECTION: Safety glasses with side shields (or safety goggles) and a face shield.  
PROTECTIVE GLOVES: Where contact is likely, wear chemical resistant gloves.  
OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical suit and rubber boots. Follow standard industrial clothing standards.

**SECTION IX SPECIAL PRECAUTIONS**

HANDLING & STORING PRECAUTIONS: Wash thoroughly after handling. Keep away from heat, sparks, or open flame. Store in temperatures below 120°F. Keep from freezing.