

SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION


TRADE NAME: **Castle® Long Life™**

PRODUCT TYPE: Battery Protectant

PRODUCT CODE: C0207, C1607

MANUFACTURED FOR: Castle Products, Inc.
424 St. Paul Street
Rochester, NY 14605
(800) 876-0222
EMERGENCY (585) 275-3232

SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION: DANGER:  Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs (Eyes, Skin, Respiratory System, Central Nervous System, and Kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Extremely Flammable Aerosol. Contains gas under pressure; may explode if heated. Keep out of reach of children.

Classification:

Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gasses under pressure	Compressed Gas

PRECAUTIONARY STATEMENTS: Wear protective gloves
Wash face, hands, and any exposed skin thoroughly after handling.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat/sparks/open flames/hot surfaces-No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%
Heptane	142-82-5	40-50%
Propane/isobutane/n-Butane	68476-86-8	30-40%
Petroleum Distillates	8052-41-3	1-10%
Paraffinic Distillates, Heavy, Solvent Dewaxed	64742-65-0	1-10%
White Mineral Oil	8042-47-5	1-10%
Xylene	1330-20-7	0.1-1%
Crystalline Silica	14808-60-7	<0.1%
Toluene	108-88-3	<0.1%

SECTION 4 FIRST AID MEASURES

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.

If on skin: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a physician if irritation persists.

If swallowed: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion. Call a physician if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a physician if you feel unwell.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog. Dry chemical powder. Carbon dioxide (CO2). Appropriate for surrounding fire.

SPECIFIC/UNUSUAL HAZARDS: Irritating gasses may be produced which will require SCBA or a fresh air source.

SPECIAL FIRE FIGHTING EQUIPMENT and PRECAUTIONS for FIREFIGHTERS: As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for containment: Prevent entry into waterways, sewers, basements, or confined areas.

Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: A large spill is not likely to occur.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid inhaling vapors or mists. Harmful if inhaled. May cause respiratory irritation if inhaled. May cause drowsiness or dizziness. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke, when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

Storage: Store locked up. Keep containers tightly closed in a cool, dry, and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on hot surfaces. Keep in properly labeled containers. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: NE

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Heptane	TLV: 400 ppm STEL: 500 ppm	TWA: 500 ppm	IDLH: 750 ppm Ceiling: 440 ppm 15 min TWA: 85 ppm
Propane/Isobutane/n-Butane	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m ₃	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm 106-97-8:TWA: 800 ppm 75-28-5:TWA: 800 ppm
Petroleum Distillates	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m ₃ Ceiling: 1800 mg/m ₃ 15 min TWA: 350 mg/m ₃
Xylene	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm	NE
White Mineral Oil	TLV: 5 mg/m ³ (oil mist)	PEL: 5 mg/m ³ (oil mist)	NE
Crystalline Silica	TWA: 0.025 mg/m ³ (respirable particulates)	TWA: 50 µg/m ³ TWA: (250)/(%SiO ₂ + 5) mppcf respirable fraction TWA: (10)/(%SiO ₂ + 2) mg/m ³ respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Toluene	TWA: 20 ppm	TWA: 20 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm STEL: 150 ppm

Appropriate Engineering Controls: Maintain adequate local exhaust ventilation.

Individual Protective Measures - Personal Protective Equipment:

Gloves: Wear impervious gloves.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear clothing suited to the task being performed.

Respiratory Protection: Not normally required if good ventilation is maintained.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Opaque Purple Aerosol

ODOR: Solvent Odor

ODOR THRESHOLD: ND

MELTING/FREEZING POINT: ND

BOILING POINT: ND

BOILING RANGE: ND

FLASH POINT: -141°F (-96.4°C) Based on Propellant

LOWER EXPLOSIVE LIMIT: ND

UPPER EXPLOSIVE LIMIT: ND

FLAMMABILITY (solid, gas): NA

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES, continued

AUTOIGNITION TEMPERATURE: ND

EVAPORATION RATE (Butyl Acetate=1): ND

VAPOR PRESSURE: ND

VAPOR DENSITY (air=1): ND

RELATIVE DENSITY: (H₂O=1): 0.691

SOLUBILITY IN WATER: Insoluble

PARTITION COEFFICIENT (n-octanol/water): ND

pH: NA

DECOMPOSITION TEMPERATURE: ND

VISCOSITY: ND

PERCENT VOLATILE BY VOL %: 78%

SECTION 10 STABILITY and REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY of HAZARDOUS REACTIONS: Hazardous reactions are unlikely.

CONDITIONS TO AVOID: High temperatures, Direct Sunlight

INCOMPATIBLE MATERIALS: Strong acids, alkalis, or oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrocarbon fumes and smoke.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: No data available.

Chemical Name	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Heptane	>5000 mg/kg (Rat)	>3160 mg/kg (Rabbit)	73680 ppm 4 hr. (Rat)
Petroleum Distillates	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5.2 mg/L 4 hr. (Rat)
Paraffinic Distillates, Heavy, Solvent Dewaxed	>15,000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	>2400 mg/m ³ 4 hr. (Rat)
White Mineral Oil	>5000 mg/kg (Rat)		
Xylene	3500 mg/kg (Rat)	>4350 mg/kg (Rabbit)	29 mg/L 4 hr. (Rat)
Toluene	2600 mg/kg (Rat)	12,000 mg/kg (Rabbit)	12.5 mg/L 4 hr. (Rat)

LIKELY ROUTES of EXPOSURE: INHALATION: Yes
INGESTION: No
SKIN CONTACT: No
EYECONTACT: No

SYMPTOMS:

EFFECTS OF EXPOSURE: IMMEDIATE: ND
DELAYED: ND
SHORT-TERM: ND
LONG-TERM: ND

Carcinogenicity:

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene		Group 3		
Crystalline Silica	A2	Group 1	Known	X
Toluene		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY: No Data Available.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and other Aquatic Invertebrates
Heptane		375 mg/L LC ₅₀ 96h Chichlid fish	
Paraffinic Distillates, Heavy, Solvent Dewaxed		5000 mg/L LC ₅₀ Oncorhynchus mykiss 96h	1000 mg/L EC ₅₀ Daphnia magna 48h

SECTION 12 ECOLOGICAL INFORMATION, continued

White Mineral Oil Xylene		10,000 mg/L LC ₅₀ <i>Lepomis macrochirus</i> 96h 13.1 - 16.5 mg/L LC ₅₀ <i>Lepomis macrochirus</i> 96h flow-through 13.5 - 17.3 mg/L LC ₅₀ <i>Oncorhynchus mykiss</i> 96h 2.661 - 4.093 mg/L LC ₅₀ <i>Oncorhynchus mykiss</i> 96h static 23.53 - 29.97 mg/L LC ₅₀ <i>Pimephales promelas</i> 96h static 30.26 - 40.75 mg/L LC ₅₀ <i>Poecilia reticulata</i> 96h static 7.711 - 9.591 mg/L LC ₅₀ <i>Lepomis macrochirus</i> 96h static 13.4 mg/L LC ₅₀ <i>Pimephales promelas</i> 96h flow-through 19 mg/L LC ₅₀ <i>Lepomis macrochirus</i> 96h 780 mg/L LC ₅₀ <i>Cyprinus carpio</i> 96h semi-static 780 mg/L LC ₅₀ <i>Cyprinus carpio</i> 96h	0.6 mg/L LC ₅₀ <i>Gammarus lacustris</i> 48h 3.82 mg/L EC ₅₀ water flea 48h
Toluene	12.5 mg/L EC ₅₀ <i>Pseudokirchneriella subcapitata</i> 72h static 433 mg/L EC ₅₀ <i>Pseudokirchneriella subcapitata</i> 96h	11.0 - 15.0 mg/L LC ₅₀ <i>Lepomis macrochirus</i> 96h static 14.1 - 17.16 mg/L LC ₅₀ <i>Oncorhynchus mykiss</i> 96h static 15.22 - 19.05 mg/L LC ₅₀ <i>Pimephales promelas</i> 96h flow-through 5.89 - 7.81 mg/L LC ₅₀ <i>Oncorhynchus mykiss</i> 96h flow-through 50.87 - 70.34 mg/L LC ₅₀ <i>Poecilia reticulata</i> 96h static 12.6 mg/L LC ₅₀ <i>Pimephales promelas</i> 96h static 28.2 mg/L LC ₅₀ <i>Poecilia reticulata</i> 96h semi-static 5.8 mg/L LC ₅₀ <i>Oncorhynchus mykiss</i> 96h semi-static 54 mg/L LC ₅₀ <i>Oryzias latipes</i> 96h static	5.46 - 9.83 mg/L EC ₅₀ <i>Daphnia magna</i> 48h Static 11.5 mg/L EC ₅₀ <i>Daphnia magna</i> 48h

PERSISTENCE and DEGRADABILITY: ND

BIOACCUMULATIVE POTENTIAL: ND

MOBILITY in SOIL: ND

OTHER ADVERSE EFFECTS: None Known.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose according to all applicable Federal, State, and Local regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number: UN1950

UN Proper Shipping Name: Aerosols, Flammable, LTD. QTY.

Transport Hazard Class(es): 2.1

Packing Group: NA

Marine Pollutant: No

Special Precautions: None Required

DOT Classification: Consumer Commodity ORM-D, or Limited Quantity.

SECTION 15 REGULATORY INFORMATION

US federal regulations: All components are listed in the United States TSCA Regulations.

CERCLA (Superfund) reportable quantity:

Chemical Name	Hazardous Substance RQ	Extremely Hazardous Substance RQ	RQ
Xylene	100 lb.	NA	RQ 100 lb.
Toluene	1000 lb.	NA	RQ 1000 lb.

Clean Water Act:

Chemical Name	CWA – Reportable Quantity	CWA Toxic Pollutant	CWA Priority Pollutant	CWA Hazardous Substance
Xylene	100 lb			X
Toluene	1000 lb	X	X	X

SECTION 15 REGULATORY INFORMATION, continued

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does contain a chemical component with a known CAS numbers that exceeds the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Chemical Name	CAS No.	Weight %	SARA 313 Threshold Value %
Xylene	1330-20-7	0.1-1 %	1.0%
Toluene	108-88-3	<0.1%	1.0%

Section 302 extremely hazardous substance: No

Section 311/312 Hazard Categories:

Acute Health Hazard: Yes


Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: Yes

Reactive Hazard: No

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

California Proposition 65:  WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

SECTION 16 OTHER INFORMATION

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings Health: 2
 Flammability: 4
 Physical hazard: 1
NFPA ratings Health: 2
 Flammability: 4
 Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

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