



SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Castle® 2-22 d-Limonene Citrus Hard Surface Cleaner™** PRODUCT TYPE: Cleaner
PRODUCT CODE: C2025

MANUFACTURED FOR: Castle Products, Inc.
424 St. Paul Street
Rochester, NY 14605
800-876-0222 • FAX 585-325-4514
EMERGENCY 585-275-3232

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: WARNING: Gases Under Pressure, Irritant  

POTENTIAL HEALTH EFFECTS: Eyes: Irritating to eyes.
Skin: Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.
Inhalation: Irritating to respiratory system. Avoid breathing vapors or mists. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Potential for aspiration if swallowed.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PEL	TLV	STEL	%
Propane/Isobutane/N-Butane	68476-86-8	NE	NE	NE	3-7%
2-Butoxyethanol	111-76-2	50ppm	20ppm	NE	1-5%
d-Limonene	5989-27-5	NE	NE	NE	1-5%

SECTION 4 FIRST AID MEASURES

First Aid Procedures:

Eye contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician if irritation persists.

Skin contact: For skin contact flush with large amounts of water. Call a physician if irritation persists.

Inhalation: Immediately remove from further exposure. Give supplemental oxygen, if breathing is difficult. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person.

Note to physician: No information available.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: [Propellant: $\geq 155^{\circ}\text{F}$ ($\geq 104^{\circ}\text{C}$)] LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND

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

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: 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: Dike far ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

SECTION 7 HANDLING AND STORAGE

Handling: Propellant is extremely flammable. Do not store near ignition sources. Avoid breathing mist. Avoid contact with skin and eyes. Wear suitable protective clothing. Wash hands after handling.

Storage: Keep from freezing. Keep containers tightly closed. Store in a cool, dry place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None Established.

Engineering controls: Use local exhaust ventilation.

Personal protective equipment:

General: Eye wash fountain and emergency showers are recommended.

Eye/face Protection: Wear safety glasses or goggles.

Skin Protection: Wear suitable protective clothing. Use impervious gloves.

Respiratory Protection: When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT:	ND	SPECIFIC GRAVITY (H ₂ O=1):	ND
VAPOR PRESSURE:	ND	PERCENT VOLATILE BY VOL %:	>95%
VAPOR DENSITY (air=1)	>1	EVAPORATION RATE (Butyl Acetate=1):	ND
SOLUBILITY IN WATER:	ND	APPEARANCE & ODOR:	Clear Liquid / Citrus
pH:	11.6	VOC Content:	10.99%

SECTION 10 STABILITY and REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY (material to avoid): Strong oxidizing agents, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, fumes.

HAZARDOUS POLYMERIZATION: No information available.

SECTION 11 TOXICOLOGICAL INFORMATION

Components Test Results:

2-Butoxyethanol: Oral LD₅₀ (rat) 470 mg/kg; Dermal LD₅₀ (rabbit) 2270 mg/kg; Inhalation LC₅₀ (rat) 450 ppm (4h).

d-Limonene: Oral LD₅₀ (rat) 4400 mg/kg, Dermal LD₅₀ (rabbit) 2000 mg/kg.

There are no known carcinogenic chemicals in this product.

SECTION 12 ECOLOGICAL INFORMATION

Component Test Results: No information available.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

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

IATA: UN1950, Aerosols, Non-Flammable, 2.2, Ltd. Qty.

IMDG: UN1950, Aerosols, 2.2, Ltd. Qty.

SECTION 15 REGULATORY INFORMATION

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

CERCLA (Superfund) reportable quantity: None

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does contain a chemical component that exceeds the threshold (De Minimis) reporting levels established by SARA Title III, Section 313: 2-Butoxyethanol: Threshold Value 1.0%.

Section 302 extremely hazardous substance: No

Section 311/312 hazard categories: Acute Health Hazard: Yes; Chronic Health Hazard: No; Fire Hazard: No;

Sudden Release of Pressure Hazard: No; 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.

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: 2
NFPA ratings	Health: 2
	Flammability: 4
	Instability: 0

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

Disclaimer Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.

PREPARED: 4/1/93

UPDATED: 9/23/13

PRODUCT #: C2025