

**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® Shop Solv™**

PRODUCT TYPE: Multi Purpose Solvent

**SECTION II HAZRDOUS INGREDIENTS**

INGREDIENT	CAS #	PEL	TLV	STEL	%
Normal Heptane	142-82-5	NE	400 ppm	NE	60-90 %
Ethanol	64-17-5	NE	1000 ppm	NE	5-15 %
Methanol	67-56-1	NE	200 ppm	NE	1-5 %
Carbon Dioxide	124-38-9	NE	5000 ppm	NE	3-7 %

**SECTION III PHYSICAL DATA**

BOILING POINT:	148.1°F / 64.5°C	SPECIFIC GRAVITY (H <sub>2</sub> O=1):	NE
VAPOR PRESSURE (PSIG @ 70°F):	NE	MELTING POINT:	NE
VAPOR DENSITY (AIR = 1):	Heavier than air	EVAPORATION RATE (Butyl Acetate = 1):	NE
SOLUBILITY IN WATER:	Soluble in cold water	APPEARANCE & ODOR:	Clear / Solvent odor

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (method used): 55°F / 12.78°C (Tagliabue) LOWER EXPLOSIVE LIMIT: 6 % UPPER EXPLOSIVE LIMIT: 36.5%  
 EXTINGUISHING MEDIA: Small fire: Dry chemicals, CO<sub>2</sub>, or foam. Large fire: Foam or water fog.  
 UNUSUAL FIRE AND EXPOSITION HAZARDS: Do not use in the presence of open flame or spark. Do not place in hot water or near radiators, stoves, or other sources of heat. Mechanical impact and static discharge raise the risk of explosion (due to flammable concentrate and propellant). Vapors of this product may form a flammable/explosive mixture with air in enclosed areas when vapors present are between the upper and lower explosive limits and come into contact with open flames, sparks, or static discharge. Keep container away from all sources of heat and ignition. Container may explode if heated.  
 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. Self-contained respiratory protection should be provided for firefighters.

**SECTION V HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, inhalation, and ingestion.  
 EFFECTS OF OVEREXPOSURE: • Eyes: May cause moderate to severe irritation, conjunctivitis, and possibly corneal injury. • Skin: May cause moderate to severe irritation, defatting, drying, and cracking of skin. • Inhalation: Excessive inhalation of vapors may cause nasal and respirator irritation and central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness. Can be fatal if inhaled. • Ingestion: May cause blindness if swallowed, since this product contains methyl alcohol. May also cause a burning sensation to the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal. Can be fatal if ingested.  
 EMERGENCY & FIRST AID PROCEDURES: • Eyes: Flush eyes with plenty of running water for at least 15 minutes, occasionally lifting upper and lower lids. 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 air. If breathing is difficult, administer oxygen. If breathing stops, give artificial respiration. Get medical attention. • Ingestion: If swallowed, call physician or poison control center 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 (material to avoid): Strong oxidizing agents, strong acids, and strong alkalis. Keep away from heat, sparks, and open flame.  
 HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO<sub>2</sub>), formaldehyde, and other irritating gases.

**SECTION VII SPILL OR LEAK PROCEDURES**

IF RELEASED OF SPILLED: Ventilate area and eliminate all sources of ignition. Keep away from heat. Absorb with an inert DRY material and place in an appropriate waste disposal container.  
 WASTE DISPOSAL METHOD: Recycle to process, if possible. Dispose in accordance with federal, state, and local regulations. Do not dispose in sewers. When container is empty, press button to release all pressure, then dispose of in garbage can.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

VENTILATION: LOCAL XXXXX MECHANICAL LOCAL  
 RESPIRATORY PROTECTION: Self-contained breathing apparatus if the TLV limits (listed above) are exceeded.  
 EYE PROTECTION: Safety glasses or goggles.  
 PROTECTIVE GLOVES: Chemical resistant gloves.  
 OTHER PROTECTIVE EQUIPMENT: Long sleeves and long pants or coveralls. Follow industrial clothing standards.

**SECTION IX SPECIAL PRECAUTIONS**

HANDLING & STORING PRECAUTIONS: After handling, wash hands thoroughly. Contents under pressure. Keep out of reach of children. Keep away from heat, sparks, or open flame. Store in a cool, dry place. Do not puncture or incinerate container. Store at temperatures below 120°F.

PREPARED: 02/09/96

UPDATED: 1/16/08

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