

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 1
Fire 3
Reactivity 0
Protection B

SECTION I DESCRIPTION

TRADE NAME: **Castle® Double Dry™**

PRODUCT TYPE: Gas Line Anti-Freeze

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PEL	TLV	STEL	%
Isopropyl Alcohol	67-63-0	400 ppm	400 ppm	400 ppm	99.9

SECTION III PHYSICAL DATA

BOILING POINT (0°F):	186°F	SPECIFIC GRAVITY (H2O = 1):	0.79 @ 25°C	pH: 5
VAPOR PRESSURE (mm Hg):	NE	PERCENT VOLATILE BY VOL %:	NE	
VAPOR DENSITY (AIR = 1):	Greater than air	EVAPORATION RATE (Butyl Acetate=1):	1.2	
SOLUBILITY IN WATER:	Slight	APPEARANCE & ODOR:	Clear / Alcohol	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): 77°F(ASTM D-56 Tag Closed Cup) LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND
EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide, or dry chemical.
UNUSUAL FIRE & EXPLOSION HAZARDS: Exposure to heat builds up pressure in closed containers. Cool containers with water.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate unprotected personnel. Wear self-contained breathing apparatus. Cool fire-exposed containers with water.

SECTION V HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, inhalation, and ingestion.
EFFECTS OF OVEREXPOSURE: • Eyes: Irritation, redness. • Skin: Dryness, irritation, and redness. • Inhalation: High concentration of vapor can irritate respiratory tract and cause pulmonary edema. • Ingestion: Nausea, vomiting, and abdominal pain.
EMERGENCY & FIRST AID PROCEDURES: • Eyes: Flush with large amounts of water for 15 minutes. Get medical attention. • Skin: Wash with soap and water. If irritation persists, get medical attention. • Inhalation: Remove to fresh air and get medical attention. If breathing is irregular, give mouth-to-mouth resuscitation. • Ingestion: Induce vomiting by giving two glasses of water and two tablespoons of syrup of ipecac. Get medical attention.

SECTION VI REACTIVITY DATA

STABILITY: Stable under normal conditions.
INCOMPATIBILITY (material to avoid): Strong oxidizers, aluminum metals, acids, acid anhydrides, and halogens.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Mixtures of acids and/or oxidizers may cause harmful by-products.

SECTION VII SPILL OR LEAK PROCEDURES

IF RELEASED OR SPILLED: Evacuate unprotected personnel. Eliminate all sources of ignition. Dike and contain. Absorb free liquid with earth, sand, clay, or absorbent pads and place in non-leak containers for disposal. Flush area for trace residue and dispose.
WASTE DISPOSAL METHOD: Place in disposal facility approved under RCRA regulations for hazardous waste (sec. XIII). Seal tightly and label properly. Dispose in accordance with federal, state, and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION: LOCAL (Preferred) MECHANICAL (Acceptable) OTHER
RESPIRATORY PROTECTION: NIOSH-approved respirator to prevent overexposure in accordance with 29 CFR 1910.134.
EYE PROTECTION: Goggles.
PROTECTIVE GLOVES: Neoprene or nitrile.
OTHER PROTECTIVE EQUIPMENT: As needed to minimize exposure.

SECTION IX SPECIAL PRECAUTIONS

HANDLING & STORING PRECAUTIONS: Store away from incompatible materials (such as strong oxidizers, aluminum metals, etc.) Keep away from heat, sparks, open flames, and other sources of ignition. Do not ingest. After handling, wash hands thoroughly.

PREPARED: 08/18/86

UPDATED: 12/31/06

PRODUCT #: C1201, C1201-5,
C1201-15, C1201-55