

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **C31682 D-DUR LOGO GREEN**

Supplier - Manufacturer **Chemcraft International Inc.,**  
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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code C31682

Synonym D-DUR LOGO GREEN

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Paint.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1263 PAINT

## Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Ethylbenzene	100-41-4	1-5	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States]
Xylenes	1330-20-7	10-30	ORAL (LD50): Acute: 4300 mg/kg [Rat].	STEL: 125 (ppm) from NIOSH TWA: 434 STEL: 651 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States] [1992] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] [1992]
n-Butyl acetate	123-86-4	5-10	ORAL (LD50): Acute: 14130 mg/kg [Rat]. 7100 mg/kg [Mouse]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	TWA: 150 STEL: 200 (ppm) from OSHA (PEL) [United States] TWA: 150 STEL: 200 (ppm) from ACGIH (TLV) [United States] [2000] TWA: 150 STEL: 200 (ppm) from NIOSH
Ethyl Acetate	141-78-6	10-30	ORAL (LD50): Acute: 5600 mg/kg [Rat].	TWA: 400 from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] TWA: 400 (ppm) from NIOSH TWA: 1400 (mg/m <sup>3</sup> ) from NIOSH
Ethyl 3-ethoxy propionate	763-69-9	5-10	ORAL (LD50): Acute: 5001 mg/kg [Rat]. 4301 mg/kg [Rat]. DERMAL (LD50): Acute: 10000 mg/kg [Rabbit].	Not available.

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

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### Section 3. Physical Data

<b>Physical State and Appearance</b>	Liquid.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Taste</b>	Not available.
<b>Molecular Weight</b>	Not applicable.
<b>pH (1% soln/water)</b>	Not applicable.
<b>Boiling Point</b>	The lowest known value is 77°C (170.6°F) (Acetic acid, ethyl ester). Weighted average: 126.24°C (259.2°F)
<b>Melting Point</b>	May start to solidify at -77.9°C (-108.2°F) based on data for: Acetic acid, butyl ester. Weighted average: -87.99°C (-126.4°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 0.98 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 9.7 kPa (@ 20°C) (Acetic acid, ethyl ester). Weighted average: 2.83 kPa (@ 20°C)
<b>Vapor Density</b>	The highest known value is 5.03 (Air = 1) (Propanoic acid, 3-ethoxy, ethyl ester). Weighted average: 3.78 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The highest known value is 2 ppm (Benzene, ethyl-) Weighted average: 0.48 ppm
<b>Water/Oil Dist. Coeff.</b>	The product is much more soluble in oil.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Partially dispersed in methanol, diethyl ether. Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol, acetone.
<b>Solubility</b>	Easily soluble in methanol, diethyl ether, n-octanol, acetone. Insoluble in cold water, hot water.

### Section 4. Fire and Explosion Hazard

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Flammable in presence of open flames and sparks, of heat.
<b>Fire Fighting Media and Instructions</b>	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. (Benzene, dimethyl-)
<b>Flash Points</b>	The lowest known value is CLOSED CUP: -1°C (30.2°F). (Tagliabue). OPEN CUP: -0.5°C (31.1°F). (Tagliabue). (Acetic acid, ethyl ester)
<b>Flammable Limits</b>	The greatest known range is LOWER: 2.2% UPPER: 11% (Acetic acid, ethyl ester)
<b>Auto-Ignition Temperature</b>	The lowest known value is 377°C (710.6°F) (Propanoic acid, 3-ethoxy, ethyl ester).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Explosive in presence of open flames and sparks.
<b>Special Remarks on Explosion Hazards</b>	Not available.

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## Section 5. Reactivity Data

<b>Stability</b>	The product is stable.
<b>Decomposition products</b>	Not available.
<b>Conditions of Instability</b>	Avoid contact with oxidizing agents. (Benzene, (1-methylethenyl)-)
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents. Slightly reactive to reactive with reducing agents, organic materials, metals, acids, alkalis. Non-reactive with combustible materials, moisture.
<b>Corrosivity</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity</b>	High temperatures, inhibitor depletion, accidental impurities, exposure to radiation, oxidizers may cause spontaneous reaction generating heat and or pressure. Closed containers may rupture or explode during runaway polymerization. (Benzene, (1-methylethenyl)-)
<b>Special Remarks on Corrosivity</b>	Not available.

## Section 6. Toxicological Properties

<b>Routes of Entry</b>	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 3500 mg/kg [Rat]. (Benzene, ethyl-). Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit]. (Benzene, ethyl-).
<b>Effects of Acute Exposure</b>	Very hazardous in case of skin contact (irritant). Hazardous in case of skin contact (permeator), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Acetic acid, ethyl ester]. Classified A5 (Not suspected for human.) by ACGIH, 4 (Probably not for human.) by IARC [Propanoic acid, 3-ethoxy, ethyl ester]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to blood, kidneys, lungs, the nervous system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea and central nervous system depression. High level exposure to Xylene in laboratory animals, often at levels which are toxic to the mother, have affected the development of the fetus. The relevance of this to humans is not known. (Benzene, dimethyl-)
<b>Special Remarks on Other Toxic Effects on Humans</b>	Material is irritating to mucous membranes and upper respiratory tract. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. (Benzene, dimethyl-)
<b>Exposure Limits</b>	<b>Benzene, methyl-</b> TWA: 200 (ppm) from OSHA (PEL) [United States] TWA: 50 (ppm) from ACGIH (TLV) [United States] [2000] TWA: 100 STEL: 150 (ppm) from NIOSH TWA: 375 STEL: 560 (mg/m <sup>3</sup> ) from NIOSH <b>Benzene, ethyl-</b> TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States] STEL: 125 (ppm) from NIOSH <b>Benzene, dimethyl-</b> TWA: 434 STEL: 651 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States] [1992] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] [1992] <b>Acetic acid, butyl ester</b> TWA: 150 STEL: 200 (ppm) from OSHA (PEL) [United States] TWA: 150 STEL: 200 (ppm) from ACGIH (TLV) [United States] [2000] TWA: 150 STEL: 200 (ppm) from NIOSH <b>Acetic acid, ethyl ester</b> TWA: 400 from OSHA (PEL) [United States] TWA: 400 (ppm) from ACGIH (TLV) [United States] TWA: 400 (ppm) from NIOSH TWA: 1400 (mg/m <sup>3</sup> ) from NIOSH
	Consult local authorities for acceptable exposure limits.

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## Section 7. Preventive Measures

<b>Personal Protection</b>	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Small Spill</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Large Spill</b>	Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
<b>Storage</b>	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
<b>TDG Classification</b>	Class 3: Flammable liquid.
<b>PIN</b>	1263 PAINT <b>PG: II</b>
<b>Special Provisions for Transport</b>	Not available.
<b>Federal and State Regulations</b>	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene, methyl-; Benzene, ethyl-; Benzene, dimethyl-; Xylenes - mixed isomers California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Benzene, methyl- Illinois toxic substances disclosure to employee act: Benzene, ethyl- New York release reporting list: Benzene, methyl-; Acetic acid, butyl ester; Acetic acid, ethyl ester New York acutely hazardous substances: Benzene, ethyl- Rhode Island RTK hazardous substances: Benzene, ethyl-; Acetic acid, ethyl ester Pennsylvania RTK: Acetic acid, butyl ester; Acetic acid, ethyl ester Florida: Benzene, methyl-; Benzene, ethyl-; Acetic acid, butyl ester; Acetic acid, ethyl ester Minnesota: Benzene, methyl-; Benzene, ethyl-; Acetic acid, butyl ester; Acetic acid, ethyl ester Michigan critical material: Benzene, methyl- Massachusetts RTK: Benzene, methyl-; Benzene, ethyl-; Acetic acid, butyl ester; Acetic acid, ethyl ester New Jersey: Benzene, methyl-; Benzene, ethyl-; Acetic acid, butyl ester; Acetic acid, ethyl ester TSCA 8(b) inventory: Benzene, methyl-; Benzene, ethyl-; Benzene, dimethyl-; Xylenes - mixed isomers; Butyl Acetate; Acetic acid, ethyl ester; Tint-Ayd PC 9454 TSCA 5(e) substance consent order: Acetic acid, butyl ester; Acetic acid, ethyl ester TSCA 8(d) H and S data reporting: Benzene, methyl-: October 4, 1992; Benzene, ethyl- TSCA 12(b) annual export notification: Acetic acid, butyl ester; Acetic acid, ethyl ester SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzene, ethyl-: fire, immediate health hazard; Benzene, dimethyl-: fire, immediate health hazard; Xylenes - mixed isomers: fire, immediate health hazard; Ethyl Acetate: fire, immediate health hazard SARA 313 toxic chemical notification and release reporting: Benzene, ethyl- 4.05528%; Benzene, dimethyl- 19.4295%; Xylenes - mixed isomers 2.22525% CERCLA: Hazardous substances.: Benzene, methyl-: 1000 lbs. (453.6 kg); Benzene, ethyl-: 1000 lbs. (453.6 kg); Benzene, dimethyl-; Xylenes - mixed isomers; Butyl Acetate; Ethyl Acetate;
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications	WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).
	HCS (U.S.A.)	Class: Flammable liquid having a flash point lower than 37.8°C (100°F). Class: Target organ effects.
Hazardous Material Information System (U.S.A.)	Health Hazard	* 2
	Fire Hazard	3
	Reactivity	0
	Personal Protection	h
National Fire Protection Association (U.S.A.)	Health	2
	Fire Hazard	3
	Reactivity	0
	Specific Hazard	

## Section 8. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	Not available.

## Section 9. Preparation Information

References	-Manufacturers Material Safety Data Sheets.
Other Special Considerations	Not available.
Related Information	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
Preparation Information	<b>Validated by Carroll Kelly on 11/7/2001.</b> <b>Verified by Carroll Kelly.</b> <b>Printed 12/18/2002.</b>
Information Contact	Prepared by the Health, Safety and Environment Department, Chemcraft International Inc., P.O. Box 458, 155, Rose Glen Road North, Port Hope, ON. Canada. Phone: 905 885-6388 Fax: 905 885-5097

### Notice to Reader

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