

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **520-303 RLS 813 BDM GINGER**

Supplier - Manufacturer **Chemcraft International Inc.,**

155 Rose Glen Road North  
P.O. Box 458  
Port Hope, ON.  
Canada L1A 3Z3

Telephone (905) 885-6388 Fax (905) 885-5097

In case of Emergency (905) 885-6388, (800) 263-7951

### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

**Code** 520-303  
**Synonym** RLS 813 BDM GINGER  
**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	5-10	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States]
m-Methyltoluene	108-38-3	10-30	ORAL (LD50): Acute: 6750 mg/kg [Rat]. DERMAL (LD50): Acute: 12400 mg/kg [Rabbit].	STEL: 125 (ppm) from NIOSH STEL: 150 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 100 (ppm) from ACGIH (TLV) [United States] [1999]
o-Methyltoluene	95-47-6	5-10	ORAL (LD50): Acute: 3600 mg/kg [Rat].	TWA: 100 (ppb)
p-Methyltoluene	106-42-3	5-10	ORAL (LD50): Acute: 4100 mg/kg [Rat].	TWA: 100 (ppb)
Propylene glycol monomethyl ether	107-98-2	1-5	ORAL (LD50): Acute: 5660 mg/kg [Rat]. DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].	TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from NIOSH TWA: 360 STEL: 540 (mg/m <sup>3</sup> ) from NIOSH TWA: 100 STEL: 150 (ppm) from OSHA (PEL) [United States] TWA: 540 STEL: 360 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States]
Methyl isobutyl ketone	108-10-1	1-5	ORAL (LD50): Acute: 21000 mg/kg [Rat]. 2850 mg/kg [Mouse]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].	TWA: 50 STEL: 75 (ppb) from ACGIH (TLV) [United States] [1994] TWA: 205 STEL: 307 (ppm) from ACGIH (TLV) [United States] [1994]
Methyl propyl ketone	107-87-9	10-30	ORAL (LD50): Acute: 3730 mg/kg [Rat]. DERMAL (LD50): Acute:	TWA: 200 CEIL: 250 (ppb) TWA: 700 CEIL: 875 (ppm)

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Solvent naphtha (petroleum), light aliph.	64742-89-8	30-60	6472 mg/kg [Rabbit]. Not available.	TWA: 400 (ppb)
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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.

### 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>	Neutral.
<b>Boiling Point</b>	The lowest known value is 102°C (215.6°F) (Methyl propyl ketone). Weighted average: 119.76°C (247.6°F)
<b>Melting Point</b>	May start to solidify at 13.3°C (55.9°F) based on data for: Benzene, 1,4-dimethyl-. Weighted average: -57.14°C (-70.9°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 0.82 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 6 kPa (@ 20°C) (Solvent naphtha (petroleum), light aliph.). Weighted average: 3.46 kPa (@ 20°C)
<b>Vapor Density</b>	The highest known value is 3.7 (Air = 1) (Benzene, 1,3-dimethyl-). Weighted average: 3.39 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The highest known value is 7.9 ppm (Methyl propyl ketone) Weighted average: 4.59 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>	Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether, n-octanol.
<b>Solubility</b>	Easily soluble in methanol, diethyl ether, n-octanol. 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>	Highly flammable in presence of open flames and sparks. Flammable in presence of heat, of oxidizing materials, of combustible materials. Slightly flammable to flammable in presence of reducing materials. Non-flammable in presence of shocks, of organic materials, of metals, of acids, of alkalis, of moisture.
<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>	Container explosion may occur under fire conditions or when heated. (Solvent naphtha (petroleum), light aliph.)
<b>Flash Points</b>	The lowest known value is Closed cup: -4°C (24.8°F). (Tagliabue.). (Naphtha (petroleum), hydrotreated light)
<b>Flammable Limits</b>	The greatest known range is LOWER: 1.6% UPPER: 13.8% (2-Propanol, 1-methoxy-)
<b>Auto-Ignition Temperature</b>	The lowest known value is 287°C (548.6°F) (2-Propanol, 1-methoxy-).
<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>	Not available.
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents, acids. Slightly reactive to reactive with reducing agents, organic materials, alkalis. Non-reactive with combustible materials, moisture.
<b>Corrosivity</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity</b>	Air sensitive. (2-Propanol, 1-methoxy-)
<b>Special Remarks on Corrosivity</b>	Not available.

## Section 6. Toxicological Properties

<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 2850 mg/kg [Mouse]. (2-Pentanone, 4-methyl-). Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit]. (Benzene, ethyl-).
<b>Effects of Acute Exposure</b>	Very hazardous in case of skin contact (irritant), of eye contact (irritant). Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A4 (Not classifiable for human or animal.) by ACGIH [Benzene, 1,3-dimethyl-]. Classified 4 (Probably not for human.) by IARC, 4 (No evidence.) by NTP, None. by OSHA [2-Propanol, 1-methoxy-]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to 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>	Detected in maternal milk in human. Passes through the placental barrier in human. (Methyl propyl ketone)
<b>Special Remarks on Other Toxic Effects on Humans</b>	Material is irritating to mucous membranes and upper respiratory tract. May cause allergic reactions, exzema and/or dehydration of the skin. (Solvent naphtha (petroleum), light aliph.)
<b>Exposure Limits</b>	<b>Benzene, ethyl-</b> TWA: 100 STEL: 125 (ppm) from ACGIH (TLV) [United States] STEL: 125 (ppm) from NIOSH <b>Benzene, 1,3-dimethyl-</b> STEL: 150 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 100 (ppm) from ACGIH (TLV) [United States] [1999] <b>Benzene, 1,2-dimethyl-</b> TWA: 100 (ppb) <b>Benzene, 1,4-dimethyl-</b> TWA: 100 (ppb) <b>2-Propanol, 1-methoxy-</b> TWA: 100 STEL: 150 (ppb) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from NIOSH TWA: 360 STEL: 540 (mg/m <sup>3</sup> ) from NIOSH TWA: 100 STEL: 150 (ppm) from OSHA (PEL) [United States] TWA: 540 STEL: 360 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] <b>2-Pentanone, 4-methyl-</b> TWA: 50 STEL: 75 (ppb) from ACGIH (TLV) [United States] [1994] TWA: 205 STEL: 307 (ppm) from ACGIH (TLV) [United States] [1994] <b>Methyl propyl ketone</b> TWA: 200 CEIL: 250 (ppb) TWA: 700 CEIL: 875 (ppm) <b>Solvent naphtha (petroleum), light aliph.</b> TWA: 400 (ppb) <b>Solvent naphtha (petroleum), light arom.</b> TWA: 25 (ppb) [1992] TWA: 123 (ppm) from ACGIH (TLV) [United States]

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**C.I. Pigment Yellow 42**

TWA: 10 (ppm) from OSHA (PEL) [United States]

**Stoddard solvent**

TWA: 100 CEIL: 125 (ppb)

TWA: 525 CEIL: 720 (ppm) from ACGIH (TLV) [United States]

Consult local authorities for acceptable exposure limits.

**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>	Flammable liquid, insoluble 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. 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, acids.
<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: XYLENE; Quartz (SiO <sub>2</sub> ); Isobutyl alcohol; Benzene, ethyl- California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Quartz (SiO <sub>2</sub> ); Isobutyl alcohol California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Quartz (SiO <sub>2</sub> ); Isobutyl alcohol California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Isobutyl alcohol Illinois toxic substances disclosure to employee act: Benzene, ethyl- New York release reporting list: Benzene, 1,3-dimethyl-; Methanol New York acutely hazardous substances: Benzene, ethyl- Rhode Island RTK hazardous substances: Benzene, ethyl-; 1,2-Propanediol; Methanol; 2-Propanol, 1-methoxy- Pennsylvania RTK: 1,2-Propanediol; Methanol: (environmental hazard); 2-Propanol, 1-methoxy- Florida: Benzene, ethyl-; Benzene, 1,3-dimethyl-; Methanol; 2-Propanol, 1-methoxy- Minnesota: Benzene, ethyl-; 1,2-Propanediol; Methanol; 2-Propanol, 1-methoxy- Massachusetts RTK: Benzene, ethyl-; Benzene, 1,3-dimethyl-; Methanol; 2-Propanol, 1-methoxy- New Jersey: Benzene, ethyl-; Methanol; 2-Propanol, 1-methoxy- TSCA 8(b) inventory: XYLENE; 1,2-Propanediol; Benzene, ethyl-; 2-Propanol, 1-methoxy- TSCA 8(d) H and S data reporting: Benzene, ethyl-; 2-Propanol, 1-methoxy- SARA 302/304/311/312 hazardous chemicals: Methanol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: XYLENE: fire, immediate health hazard; Quartz (SiO <sub>2</sub> ): delayed health hazard; Isobutyl alcohol: fire, immediate health hazard; Benzene, ethyl-: fire, immediate health hazard SARA 313 toxic chemical notification and release reporting: XYLENE 32.1445%; Benzene, ethyl-

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5.47151%; 2-Pentanone, 4-methyl- 1.31456%

CERCLA: Hazardous substances.: XYLENE; Isobutyl alcohol; Benzene, ethyl-: 1000 lbs. (453.6 kg); Methyl Alcohol; 2-Pentanone, 4-methyl-;

**Other Regulations**

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-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: Irritating substance.  
Class: Target organ effects.

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	h
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	2
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

**Section 8. First Aid Measures**

<b>Eye Contact</b>	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 immediately.
<b>Skin Contact</b>	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.
<b>Hazardous Skin Contact</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
<b>Hazardous Inhalation</b>	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. Seek medical attention.
<b>Ingestion</b>	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.
<b>Hazardous Ingestion</b>	Not available.

**Section 9. Preparation Information**

<b>References</b>	-Manufacturers Material Safety Data Sheets.
<b>Other Special Considerations</b>	Not available.
<b>Related Information</b>	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.
<b>Preparation Information</b>	<b>Validated by C.M. Kelly on 1/3/2003.</b> <b>Verified by C.M. Kelly.</b> <b>Printed 3/10/2003.</b>
<b>Information Contact</b>	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

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**Notice to Reader**

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