


MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME:	LDA160 Dispersing Agent		24 HOUR EMERGENCY TELEPHONE NUMBER:	CANUTEC (613) 996-6666									
MANUFACTURED BY:	 Lorama Inc. 221 Nipissing Road Milton, Ontario Canada L9T 1R3 (905) 878-2833	USE IN CASE OF A DANGEROUS GOODS EMERGENCY											
CHEMICAL FAMILY:													
MATERIAL USE:	Dispersing Agent		<table border="1"> <tr> <td>FLAMMABILITY</td> <td>3</td> <td>REACTIVITY</td> <td>0</td> </tr> <tr> <td>HEALTH</td> <td>1</td> <td>PERSONAL PROTECTION</td> <td>C</td> </tr> </table>	FLAMMABILITY	3	REACTIVITY	0	HEALTH	1	PERSONAL PROTECTION	C		
FLAMMABILITY	3	REACTIVITY	0										
HEALTH	1	PERSONAL PROTECTION	C										

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Weight %	CAS or UN number	OSHA STEL	ACGIH TWA	ACGIH STEL
Propylene glycol methyl ether	15-40	107-98-2	553 mg/m ³ 150 ppm	100 ppm	150 ppm
Petroleum Distillate	10-30	64742-95-6			

SECTION 3 - PHYSICAL DATA

* Values are not product specifications.

Physical State Gas <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/>	Appearance Translucent liquid	Odor Characteristic	Odor Threshold Not available	Density (@20°C) 0.93 g/cm
Vapor Pressure (mm) 12 hPa @ 20°C	Vapor Density (Air = 1) Not available	Evaporation Rate Not available	Boiling Point (°C) 120°C	Freezing Point (°C) Not available
Solubility in Water Not miscible	% solids (by weight) 52 %	pH Not available	Coefficient of Water/Oil Distribution Not available	TSCA

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If YES under which conditions / comments: Requires source of ignition, presence of air, and a temperature greater than the flashpoint.			
Means of Extinction Carbon dioxide, dry chemical or foam.				
Special Procedures Wear self-contained breathing apparatus and protective suit. Cool fire-exposed containers with water. Water may be ineffective in putting out fire and a water stream will spread flames. Vapor may cause flash fire or explosion.				
Flashpoint (°C) and Method 30°C	Upper Explosion Limit (% by volume) 13.1 %		Lower Explosion Limit (% by Volume) 0.7 %	
Auto Ignition Temperature Not self-igniting	TDG Flammability Classification Class 3	Hazardous Combustion Products Burning may produce toxic combustion products. May release flammable vapors that are heavier than air and can spread along the ground forming a flash back or explosion hazard.		
Explosion Data Not applicable	Rate of Burning Not available	Sensitivity to Static Discharge Not available		

SECTION 5 - REACTIVITY DATA

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If NO under which conditions?	
Incompatibility to other substances Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If YES, which ones? Strong oxidizing agents, strong acids and bases	
Reactivity and under what conditions: None expected		
Hazardous Decomposition Products: No decomposition expected under normal storage conditions. Avoid temperature extremes.		

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry <input type="checkbox"/> Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation Acute <input type="checkbox"/> Inhalation Chronic <input checked="" type="checkbox"/> Ingestion			
Effects of Acute Exposure to Product May cause respiratory irritation. Additional info: Prolonged skin contact with very large amounts may cause drowsiness (based on components).			
Effects of Chronic Exposure to Product None known			
Carcinogenicity <input type="checkbox"/>	Reproductive Effects <input type="checkbox"/>	Teratogenicity <input type="checkbox"/>	Mutagenicity <input type="checkbox"/>
Does not meet HMIS criteria for these effects			
LD ₅₀ of product (Specify Species and Route) Not available	Irritancy of Product Irritant to eyes and skin (based on components)	Exposure Limits of Products Not available	
LC ₅₀ of Product (Specify species) Not available	Sensitization of Product Not available	Synergistic Materials None known	

SECTION 7 - PRECAUTIONS AND PREVENTATIVE MEASURES

Personal Protective Equipment

Gloves and goggles may be worn.

Gloves (Specify)	Respiratory (Specify)	Eye (Specify)	Footwear (Specify)
Protective and chemical resistant gloves	NIOSH approved respirator as needed to mitigate exposure	Splash proof chemical goggles	Not needed
Clothing (Specify)	Other (Specify)		
Protective clothing	None		

Engineering Controls (e.g. ventilation, enclosed process, specify)

Work in well ventilated areas. Do not breathe vapors or mist.

Leak and Spill Procedures

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wear suitable protective equipment. Should not be released into the environment. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Waste Disposal

Consult local environmental agencies. Do not cut containers: flammable vapors may exist in containers in which residues of this product remain. Additional info: This product is toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Prevent spillage to a body of water. Prevent release to ground water, watercourse or sewage system.

Handling Procedures and Equipment

Avoid eye, skin and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation. Keep away from heat, sparks and flame. Ground and bond containers for transfer to prevent static sparks. Use non-sparking tools.

Storage Requirements

Keep containers tightly closed in a cool, well-ventilated place. Store in area with appropriate fire protection.

General Shipping Information

DOT Regulations

Hazard Class	3
Identification Number	UN1866
Packaging Group	111
Proper shipping name (technical name)	RESIN SOLUTION, flammable
Marine Pollutant	No

Maritime Transport IMDG

IMDG Class	3
UN Number	1866
Packaging number	111
Proper shipping name (technical name)	RESIN SOLUTION, flammable
Marine Pollutant	No

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class	3
UN/ID Number	1866
Packaging Group	111
Proper shipping name (technical name)	RESIN SOLUTION

SECTION 8 - FIRST AID TREATMENT

Skin

Wash thoroughly with soap and plenty of water. Get medical attention if irritation occurs.

Eyes

Wash with gently flowing lukewarm water for at least fifteen minutes. Consult physician

Inhalation

Move to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Ingestion

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Consult physician.

General Advice

Consult physician for all serious overexposures / signs of rash.

SECTION 9 - PREPARATION DATE

Additional Information / Comments

We assigned hazards to this product based on its ingredients. Since the customer is aware of the application and method of use, the customer must ensure that proper health and safety procedures are followed.

Preparation Date November 8, 2002

Revision Date October 31, 2007

The information presented herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other additional considerations. No warranty of any kind is given or implied and Lorama Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years.