

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **431-2010 ES LACQUERELITE FLAT(C28637)**

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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

**Code** 431-2010  
**Synonym** ES LACQUER ELITE FLAT  
**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

### Exposure limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Isobutyl acetate	110-19-0	15 - 30	ORAL (LD50): Acute: 4763 mg/kg [Rabbit]. 3200 mg/kg [Rat].	TWA: 150 ppm
Methyl alcohol	67-56-1	5 - 15	ORAL (LD50): Acute: 6200 mg/kg [Rat]. 5600 mg/kg [Rat]. DERMAL (LD50): Acute: 15800 mg/kg [Rabbit].	<b>OSHA (United States).</b> TWA: 200 ppm <b>ACGIH (United States, 2000).</b> TWA: 200 ppm STEL: 250 ppm <b>NIOSH (1997).</b> TWA: 200 ppm STEL: 250 ppm TWA: 260 mg/m <sup>3</sup> STEL: 325 mg/m <sup>3</sup>
Xylenes	1330-20-7	5 - 15	ORAL (LD50): Acute: 4300 mg/kg [Rat].	<b>ACGIH (United States, 1992).</b> TWA: 100 ppm STEL: 150 ppm TWA: 434 mg/m <sup>3</sup> STEL: 651 mg/m <sup>3</sup>
Isobutyl alcohol	78-83-1	5 - 15	ORAL (LD50): Acute: 2500 mg/kg [Rat]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 4200 mg/kg [Rabbit].	<b>ACGIH (United States, 1993).</b> TWA: 50 ppm
Ethyl Acetate	141-78-6	5 - 15	ORAL (LD50): Acute: 5620 mg/kg [Rat]. 4100 mg/kg [Mouse]. 4935 mg/kg [Rabbit].	<b>ACGIH TLV (United States)</b> TWA: 400 ppm 8 hour/hours. TWA: 400 ppm
Toluene	108-88-3	5 - 15	ORAL (LD50): Acute: 2600	<b>ACGIH (United States,</b>

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Isopropanol	67-63-0	5 - 15	mg/kg [Rat.] DERMAL (LD50): Acute: 12210 mg/kg [Rabbit]. ORAL (LD50): Acute: 5045 mg/kg [Rat]. 4797 mg/kg [Dog] . 3600 mg/kg [Mouse]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit].	<b>1993).</b> TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> <b>ACGIH (United States, 1994).</b> TWA: 400 ppm STEL: 500 ppm TWA: 983 mg/m <sup>3</sup> STEL: 1230 mg/m <sup>3</sup> <b>ACGIH (United States).</b> TWA: 100 ppm STEL: 125 ppm <b>NIOSH</b> STEL: 125 ppm <b>OSHA (United States).</b> TWA: 6 mg/m <sup>3</sup> <b>OSHA (United States).</b> STEL: 2 ppm TWA: 0.75 ppm
Ethylbenzene	100-41-4	1 - 5	ORAL (LD50): Acute: 3500 mg/kg [Rat.] DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	
Silica, amorphous	7631-86-9	1 - 5	ORAL (LD50): Acute: 3160 mg/kg [Rat].	
Potential additional emission of formaldehyde	50-00-0*	0.1 - 1	ORAL (LD50): Acute: 100 mg/kg [Rat.] DERMAL (LD50): Acute: 270 mg/kg [Rabbit].	

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 64.5°C (148.1°F) (Methanol). Weighted average: 111.14°C (232.1°F)
<b>Melting Point</b>	May start to solidify at -48°C (-54.4°F) based on data for: 1,2-Benzenedicarboxylic acid, di-C (8-10)-branched alkyl esters, C9-rich. Weighted average: -93.69°C (-136.6°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	Weighted average: 0.91 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 12.2 kPa (91.8 mm Hg) (at 20°C) (Methanol). Weighted average: 4.46 kPa (33.45 mm Hg) (at 20°C)
<b>Vapor Density</b>	The highest known value is 3.66 (Air = 1) (Benzene, ethyl-). Weighted average: 2.89 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The lowest known value is 0.3 ppm (Benzene, dimethyl-) Weighted average: 3.36 ppm
<b>Water/Oil Dist. Coeff.</b>	The product is much more soluble in octanol.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Partially dispersible in methanol, diethyl ether. Not dispersible 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>	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Highly flammable in the presence of the following materials or conditions: heat. Non-flammable in the presence of the following materials or conditions: oxidizing materials, reducing materials, combustible materials and moisture.

<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and fumes. (Acetic acid, 2-methylpropyl ester)
<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: 6% Upper: 36.5% (Methanol)
<b>Auto-Ignition Temperature</b>	The lowest known value is 416°C (780.8°F) (1-Propanol, 2-methyl-).
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.
<b>Explosion Hazards in Presence of Various Substances</b>	Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.
<b>Special Remarks on Explosion Hazards</b>	Not available.

### **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>	Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials, organic materials, metals, acids and alkalis. Non-reactive or compatible with the following materials: moisture.
<b>Corrosivity</b>	Not available.
<b>Special Remarks on Reactivity</b>	Incompatible with hydrogen fluoride. (Silica)
<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): 2500 mg/kg [Rat.]. (1-Propanol, 2-methyl-). Acute dermal toxicity (LD50): 4200 mg/kg [Rabbit.]. (1-Propanol, 2-methyl-). Acute toxicity of the gas (LC50): 45000 mg/m <sup>3</sup> 2 hour/hours [Mouse]. (Acetic Acid, Ethyl Ester). Acute toxicity of the vapor (LC50): 16000 ppm 6 hour/hours [Rat]. (Acetic Acid, Ethyl Ester).
<b>Effects of Acute Exposure</b>	Very hazardous in case of ingestion. Hazardous in case of skin contact (permeator), of inhalation. Slightly hazardous in case of skin contact (corrosive).
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS:</b> Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [Methanol]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Acetic Acid, Ethyl Ester]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Phosphoric acid, monobutyl ester]. Classified A2 (Suspected for humans.) by ACGIH, 2A (Probable for human.) by IARC [Potential additional emission of formaldehyde]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to the nervous system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.
<b>Special Remarks on Toxicity to Animals</b>	Formaldehyde has caused cancer in test animals at high concentrations (5-15 ppm). (Potential additional emission of formaldehyde)
<b>Special Remarks on Chronic Effects on Humans</b>	May be fatal or cause blindness if swallowed. Animal: embryotoxic, passes through the placental barrier. (Methanol)

Special Remarks on Other	Material is irritating to mucous membranes and upper respiratory tract. (Acetic acid, 2-methylpropyl ester)
Toxic Effects on Humans	
Exposure Limits	Not available.

## Section 7. Preventive Measures

Personal Protection	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
Small Spill	Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container.
Large Spill	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 allow water to enter container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike if necessary. Call for assistance on disposal.
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Precautions	Keep locked up. Keep container dry. 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. Never add water to this product. Take precautionary measures against electrostatic discharges. 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, alkalis.
Storage	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).
TDG Classification	3
PIN	1263 PAINT <b>PG: II</b>
Special Provisions for Transport	-
Federal and State Regulations	<b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Benzene; Benzene, methyl-; Formaldehyde <b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause reproductive harm (male).: Benzene <b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene; Benzene, methyl- <b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer.: Benzene; Formaldehyde Illinois toxic substances disclosure to employee act: Benzene, ethyl- New York release reporting list: Methanol; Acetic Acid, Ethyl Ester New York acutely hazardous substances: Benzene, ethyl- Rhode Island RTK hazardous substances: Methanol; Benzene, ethyl-; Acetic Acid, Ethyl Ester Pennsylvania RTK: Benzene, methyl-; Methanol: (environmental hazard); Benzene, ethyl-; Benzene, dimethyl-; Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Acetic Acid, Ethyl Ester Florida: Methanol; Benzene, ethyl-; Acetic Acid, Ethyl Ester Minnesota: Methanol; Benzene, ethyl-; Acetic Acid, Ethyl Ester Massachusetts RTK: Methanol; Benzene, ethyl-; Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Acetic Acid, Ethyl Ester New Jersey: Benzene, methyl-; Methanol; Benzene, ethyl-; Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Acetic Acid, Ethyl Ester TSCA 8(b) inventory: Benzene, methyl-; Benzene, ethyl-; Benzene, dimethyl-; Isopropyl alcohol; Acetic acid, 2-methylpropyl ester; Acetic Acid, Ethyl Ester; N-Butyl Alcohol

TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester  
 TSCA 8(d) H and S data reporting: Benzene, ethyl-  
 TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester  
 SARA 302/304/311/312 hazardous chemicals: Methanol  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzene, methyl-: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Benzene, ethyl-: Fire hazard, Immediate (acute) health hazard; Benzene, dimethyl-: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Isobutyl alcohol: Fire hazard, Delayed (chronic) health hazard; 2-Propanol: Fire hazard, Delayed (chronic) health hazard; Acetic acid, 2-methylpropyl ester: Fire hazard, Immediate (acute) health hazard; Acetic Acid, Ethyl Ester: Fire hazard, Immediate (acute) health hazard  
 CERCLA: Hazardous substances.: Benzene, methyl-: 1000 lbs. (453.6 kg); Methanol; Benzene, ethyl-: 1000 lbs. (453.6 kg); Benzene, dimethyl-: 100 lbs. (45.36 kg); Isobutyl alcohol; Acetic acid, 2-methylpropyl ester; Acetic Acid, Ethyl Ester; N-Butyl Alcohol;  
 OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Regulations**

**OSHA: Standard for Occupational Exposure to Formaldehyde 29CFR 1910.1048 must be consulted before initial use of product.**

**Other Classifications**

**WHMIS (Canada)**      **Class B-2: Flammable liquid**  
                                  **Class D-1A: Material causing immediate and serious toxic effects (Very toxic).**  
                                  **Class D-2A: Material causing other toxic effects (Very toxic).**  
                                  **Class D-2B: Material causing other toxic effects (Toxic).**

**HCS (U.S.A.)**      Contains material which may cause cancer  
                                  Highly toxic  
                                  Target organ effects

<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health Hazard</b>	* 1
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Personal Protection</b>	G
<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	1
	<b>Fire Hazard</b>	3
	<b>Reactivity</b>	0
	<b>Specific Hazard</b>	

**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**                      Wash with soap and water. Get medical attention if irritation develops.

**Hazardous Skin Contact**      Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation**                          If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**Hazardous Inhalation**          Move 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.

**Ingestion**                              Do not induce vomiting. Examine the lips and mouth to ascertain if the tissues are damaged, a possible indication that 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** **Validated by S.Bice on 5/8/2006.**

**Verified by S.Bice.**

**Printed 10/4/2006.**

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