

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification			
Common Name	UNILAC 100	Code	48020T25
Supplier	LORCHEM INTERNATIONAL.	MSDS#	Not available.
Supplier	150 rue Aimé-Vincent Vaudreuil, Quebec (J7V 5V5) 450-424-4000	Validation Date	5/26/2013
Synonym	Polyurethane top coat	Print Date	5/26/2013
Trade name	Not available.	Responsible Name	LORCHEM INTERNATIONAL.
Material Uses	Coatings: Wood finishing	In Case of Eme	rgency phone: Chemtrec:
Manufacturer	LORCHEM INTERNATIONAL 150 rue Aimé-Vincent Vaudreuil, Quebec (J7V 5V5) 450-424-4000	Emergency 1-800)-424-9300

Section 2. Composition and Information on Ingredients			
Name	CAS#	% by Weight	Exposure Limits
1) Denatured alcohol 2A anhydrous 2) Isobutyl acetate 3) Isopropyl alcohol 99% 4) N-butyl acetate 5) Methyl n-amyl ketone 6) Acetone 7) Ester EEP	110-19-0 67-63-0 123-86-4 110-43-0 67-64-1 763-69-9	6-16 10-21 1-10 2-12 6-16 2-12 2-12	Not available.

Section 3. Hazards	Section 3. Hazards Identification		
Physical State and Appearance	Liquid		
Emergency Overview	WARNING!		
	Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.		
Routes of Entry	Absorbed through skin. Dermal contact. Inhalation. Ingestion.		
Potential Acute Health Effe	cts		
Ey	es Slightly hazardous in case of eye contact (irritant).		
Sk	 Very hazardous in case of skin contact (permeator). Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. 		
Inhalati	nn Hazardous in case of inhalation.		
Ingestic	nn Hazardous in case of ingestion.		
Potential Chronic Health Effects MUTAGENIC EFFECTSNot available. TERATOGENIC EFFECTSNot available. TERATOGENIC EFFECTSNot available.			
Medical Conditions Repeated or prolonged exposure is not known to aggravate medical condition. Aggravated by Overexposure:			
Overexposure Not available. //Signs/Symptoms See Toxicological Information (section 11)			

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Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.	
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. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get 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.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	
Notes to Physician	Not available.	

Section 5. Fire Fight	Section 5. Fire Fighting Measures		
Flammability of the Product	Flammable.		
Auto-ignition Temperature	The lowest known value is 404°C (759.2°F) (Methyl ethyl ketone).		
Flash Points	The lowest known value is CLOSED CUP: -9°C (15.8°F). OPEN CUP: -4°C (24.8°F). (Methyl ethyl ketone)		
Flammable Limits	The greatest known range is LOWER: 1.8% UPPER: 10% (Methyl ethyl ketone)		
Products of Combustion	These products are carbon oxides (CO, CO2).		
Fire Hazards in Presence of Various Substances	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 moisture.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.		
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.		
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back.		
Special Remarks on Explosion Hazards	None		

Section 6. Accide	Section 6. Accidental Release Measures	
Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Large Spill and Leak	Flammable liquid. 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 touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

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Section 7. Handling and Storage	
Handling	Provide good ventilation of the workroom and exhaust at the place of work. Keep away from heat and sources of ignition as well as from open fire. Observe the local safety regulations. The opened drums must be well closed with care and stand-up to avoid any spilling.
Storage	Store under cool, well ventilated, dry conditions with strict exclusion of light. Protect from flames, sparks and shocks. Keep container tightly closed.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use only in well ventilated areas.

Personal Protection

Eyes Safety glasses.

Body Lab coat.

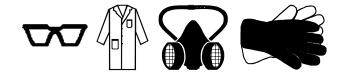
Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate

respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus a Large Spill should be used to avoid inhalation of the product.

Exposure Limits Product Name 1) Denatured alcohol 2A anhydrous Not available. Not available. 2) Isobutyl acetate 3) Isopropyl alcohol 99% Not available. Not available. 4) N-butyl 5) Methyl n-amyl ketone Not available. 6) Acetone Not available. 7) Ester EEP Not available. Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid	Odor	Solvent
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Transparent
pH (1% Soln/Water)	Neutral.		
Boiling/Condensation Point	The lowest known value is 79.6 (175.3°F) (Methyl ethyl ketone). Weighted average: 106.97°C (224.5°F)		
Melting/Freezing Point	May start to solidify at 8.63 (47.5°F) based on data for: Methyl ethyl ketone. Weighted average: -81.57°C (-114.8°F)		
Critical Temperature	N/A		
Specific Gravity	0.89		
Vapor Pressure	Heavier than air		
Vapor Density	The highest known value is 4 (Air = 1) (Isobutyle acetate). Weighted average: 3.1 (Air = 1)		

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Volatility	Volatile		
Odor Threshold	The highest known value is 0.25 ppm (METHYL ETHYL KETONE)		
Evaporation Rate	Slower than Isobutyl Acetate		
voc	549 (g/l).		
Viscosity	18 + 1 second. Ford Cup #4 at 77°F (25°C)		
LogKow	The product is more soluble in oil.		
Ionicity (in Water)	N/A		
Dispersion Properties	See solubility in water, methanol, diethyl ether, n-octanol.		
Solubility	In solvents		
Physical Chemical Comm	ents Paint Related Material		

Section 10. Stability and Reactivity		
Stability and Reactivity	The product is stable.	
Conditions of Instability	N/A	
Incompatibility with Various Substances	Highly reactive with oxidizing agents, organic materials. Reactive with reducing agents, acids, alkalis. Slightly reactive to metals. Non-reactive with moisture.	
Hazardous Decomposition Products	N/A	
Hazardous Polymerization	Not available.	

Section 11. Toxicological Information	
Toxicity to Animals	Acute oral toxicity (LD50): 2600 mg/kg [Rat.]. (Toluene). Acute dermal toxicity (LD50): 12210 mg/kg [Rabbit.]. (Toluene).
Chronic Effects on Humans	Causes damage to the following organs: blood, kidneys, the nervous system, liver.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (permeator). Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer).
Special Remarks on Toxicity to Animals	None
Special Remarks on Chronic Effects on Humans	Inhalation of vapors may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. (Toluene)
Special Remarks on Other Toxic Effects on Humans	Exposure can cause lung irritation, chest pain and oedema which may be fatal. (Toluene)

Section 12. Ecological Information	
Ecotoxicity	Not available.
BOD5 and COD	N/A
Biodegradable/OECD	Not available.
Mobility	Not available.
	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

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Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	None	

Section 13. Disposal Considerations		
Waste Information	Dispose in observation of local regulations. Don't abandon the product in ambient.	
Waste Stream	N/A	
Consult your local or regional authorities.		

Section 14. Transpo	ort Information	
DOT Classification	Class 3: Flammable liquid.	To the state of th
	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) (Methyl ethyl ketone)	
	1263 II	
Marine Pollutant	Not available.	
Hazardous Substances Reportable Quantity	Not available.	
Special Provisions for Transport	Not available.	
TDG Classification	Class 3: Flammable liquid.	
ADR/RID Classification	Class 3: Flammable liquid A.	
IMO/IMDG Classification	CLASS 3.1: Flammable liquid (Low flashpoint group of liquids having a flashpoint below -18°C (0°F) c.c.).	
ICAO/IATA Classification	Class 3: Flammable liquid.	

Section 15. Regulatory Information		
HCS Classification	Class: Flammable liquid having a flash point lower than 37.8°C (100°F).	
U.S. Federal Regulations	TSCA: No products were found. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean water act (CWA) 307: No products were found. Clean water act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.	
International Regulations		
WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).	
	CEPA DSL: All products were found.	
EINECS	Not available.	
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DSCL (EEC)	R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes.	
International Lists	No products were found.	
State Regulations	No products were found.	
	California prop. 65: No products were found.	

Section 16. Other Information Label Requirements Health **Hazardous Material National Fire** Fire Hazard **Information System Protection** 3 Fire Hazard (U.S.A.) Association (U.S.A.) Health 3 Reactivity 1 Reactivity Specific Hazard Η **Personal Protection** References If you need references concerning this product, we will be pleased to give you the information on your request. Other Special Revised: 5/26/2013. Considerations Validated by LORCHEM INTERNATIONAL. on 5/26/2013. Verified by LORCHEM INTERNATIONAL.. Printed 5/26/2013

Notice to Reader

Emergency phone: Chemtrec: 1-800-424-9300

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.