SECTION 1. IDENTIFICATION
Product Identifier: LACQUER THINNER
Other Means of Identification: 13-354
Recommended Use: Please refer to Product label.
Restrictions on Use: None known.
Manufacturer / Supplier: Recochem Inc., 850 Montee de Liesse, Montreal, QC, H4T 1P4, Compliance and Regulatory Department, 905-878-5544, www.recochem.com
Emergency Phone No.: CANUTEC, 613-996-6666, 24 Hours
SDS No.: 1124

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification
Flammable liquid - Category 2; Acute toxicity (Oral) - Category 3; Acute toxicity (Dermal) - Category 3; Acute toxicity (Inhalation) - Category 3; Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Reproductive Toxicity - Category 2; Specific target organ toxicity (single exposure) - Category 1; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2; Aspiration hazard - Category 1

GHS Label Elements

Signal Word: Danger

Hazard Statement(s):
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child if inhaled, following skin contact and/or if swallowed.
H370 Causes damage to organs (eyes, nervous system) if inhaled and/or swallowed.
H373 May cause damage to organs (auditory (hearing) system) through prolonged or repeated exposure if inhaled.

Prevention:

Product Identifier: LACQUER THINNER
SDS No.: 1124
Date of Preparation: April 28, 2015
Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, and other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe fume, vapours.

Wash hands and skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

Rinse mouth.

Do NOT induce vomiting.

Specific treatment (see supplemental first aid instruction on this label).

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Call a POISON CENTRE/doctor if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE/doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Call a POISON CENTRE/doctor if you feel unwell.

If skin irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTRE/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder, water spray or fog to extinguish.

Storage:

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>57.3</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>23.6</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>11.4</td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>7.7</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

LACQUER THINNER

Page 02 of 08

April 28, 2015
Most Important Symptoms and Effects, Acute and Delayed
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Immediate Medical Attention and Special Treatment
Special Instructions
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Medical Conditions Aggravated by Exposure
None known.

SECTION 5. FIRE-FIGHTING MEASURES
Extinguishing Media
Unsuitable Extinguishing Media
None known.

Special Protective Equipment and Precautions for Fire-fighters
Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.
See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES
Environmental Precautions
Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up
Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE
Precautions for Safe Handling
Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV®</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>750 ppm</td>
<td>750 ppm</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methanol</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm A4</td>
<td>Not established</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Basic Physical and Chemical Properties**

- **Appearance**: Clear liquid.
- **Odour**: Hydrocarbon
- **Odour Threshold**: 0.16 - 37 ppm (0.6 - 139.2 mg/m3) (Toluene)
- **pH**: Not available
- **Melting Point/Freezing Point**: -95 ºC (-139 ºF) (Toluene) (melting); -95 ºC (-139 ºF) (Toluene) (freezing)
- **Initial Boiling Point/Range**: 110.6 ºC (231.1 ºF) (Toluene)
- **Flash Point**: -2 ºC (28 ºF) (closed cup)
- **Evaporation Rate**: 2.0 (estimated) (n-butyl acetate = 1)
- **Flammability (solid, gas)**: Not applicable
- **Upper/Lower Flammability or Explosive Limit**: 36% (Methanol) (upper); 6% (Methanol) (lower)
- **Vapour Pressure**: 21.98 mm Hg (2.93 kPa) at 20 ºC (Toluene)
- **Vapour Density (air = 1)**: 3.18 (estimated)
- **Relative Density (water = 1)**: 0.835 - 0.839 at 20 ºC
- **Solubility**: Slightly soluble in water; Soluble in all proportions in common organic solvents.
- **Partition Coefficient, n-Octanol/Water (Log Kow)**: Not available
- **Auto-ignition Temperature**: 385 ºC (725 ºF) (Methanol)
- **Decomposition Temperature**: Not available
- **Viscosity**: 0.676 mm2/s at 25 ºC (estimated) (kinematic); 0.586 mPa.s at 20 ºC (estimated) (dynamic)

**Other Information**

- **Physical State**: Liquid
- **Molecular Weight**: Not applicable

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions of use.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

**Conditions to Avoid**

Product Identifier: LACQUER THINNER

SDS No.: 1124

Date of Preparation: April 28, 2015

**Incompatible Materials**

Reacts violently with: strong acids (e.g. hydrochloric acid). Reacts explosively with: strong oxidizing agents (e.g. perchloric acid), oxidizing agents (e.g. peroxides).

Not corrosive to metals.

**Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide; very toxic, flammable aldehydes; very toxic, flammable formaldehyde.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>44000 mg/m3 (mouse)</td>
<td>3000 mg/kg (mouse)</td>
<td>&gt; 15800 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>(4-hour exposure)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>11300-11700 ppm (rat)</td>
<td>2737 mg/kg (rat)</td>
<td>&gt; 8050 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>(4-hour exposure)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>83867.5 mg/m3 (rat)</td>
<td>5628 mg/kg (rat)</td>
<td>15800 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>(4-hour exposure)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>12500-28800 mg/m3 (rat)</td>
<td>&gt; 5580 mg/kg (rat)</td>
<td>12125 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>(4-hour exposure)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LC50: Not applicable.
LD50 (oral): Not applicable.
LD50 (dermal): Not applicable.

**Skin Corrosion/Irritation**

Animal tests show moderate or severe irritation. (Toluene)

**Serious Eye Damage/Irritation**

Human experience shows very mild irritation. (Toluene) the vapour also irritates the eyes. Human experience and animal tests show serious eye irritation. The vapour also irritates the eyes. (Acetone). (Methyl ethyl ketone)

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

Toxic, can cause death based on human experience and animal tests. Depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. (Methanol). (Methyl ethyl ketone). (Acetone). (Toluene) may be harmful based on human experience and animal tests. Nose and throat irritation. (Methyl ethyl ketone). (Acetone)

**Skin Absorption**

May be harmful based on limited evidence. (Toluene). (Methyl ethyl ketone). (Methanol)

**Ingestion**
Very toxic, can cause death based on human experience. Can cause effects as described for inhalation. Depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness. (Toluene) may be harmful based on animal tests. (Acetone) may be harmful if large amounts are swallowed can cause effects as described for inhalation. Depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness. (Methyl ethyl ketone) toxic, can cause death based on human experience and animal tests. Depression of the central nervous system, impaired vision and blindness. In some cases, there may be delayed effects on the nervous system. Symptoms may include headache, nausea, vomiting, dizziness, drowsiness and confusion. A severe exposure may cause stomach pain, muscle pain, difficult breathing and coma. Vision can be impaired and permanent blindness can result. There may be other permanent effects on the nervous system e.g. tremor, seizures. (Methanol)

**Aspiration Hazard**
May be drawn into the lungs (aspirated) if swallowed or vomited. Death can result.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**
May cause if inhaled: effects on the central nervous system, harmful effects on the hearing (auditory) system. Exposure to this chemical and loud noise may cause greater hearing loss than expected from noise exposure alone. (Toluene) May cause if inhaled: effects on the central nervous system. (Acetone). (Methyl ethyl ketone). (Methanol) May cause if inhaled: at high concentrations effects on the nervous system and impaired vision including permanent blindness.

**Respiratory and/or Skin Sensitization**
Not a respiratory sensitizer. (Toluene). (Acetone). (Methanol) Not a skin sensitizer. (Toluene). (Acetone) May cause an allergic reaction (skin sensitization) based on limited evidence. (Methyl ethyl ketone). (Methanol)

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH®</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Not Listed</td>
<td>A4</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methanol</td>
<td>Not Listed</td>
<td>Not designated</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>Group 3</td>
<td>A4</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Reproductive Toxicity**

**Development of Offspring**
Animal studies show effects on the offspring. If inhaled: known to cause: decreased weight, long-lasting behavioural changes, hearing loss, miscarriage. (Toluene) May cause effects on the unborn child based on limited evidence. However, these effects are only seen with significant toxicity in the mothers. If inhaled: known to cause: decreased weight. Embryotoxic (late resorptions) Studies in people and animals show effects on the unborn child. If inhaled: has been associated with: miscarriage. (Acetone) Animal studies show effects on the offspring. If swallowed: known to cause: teratogenic(external, soft tissue and skeletal defects) decreased weight.

**Sexual Function and Fertility**
Conclusions cannot be drawn from the limited studies available. (Toluene) animal studies show effects on sexual function and/or fertility. If swallowed: has been associated with: reduced male fertility. Studies in people show effects on sexual function and/or fertility. If inhaled: known to cause: reduced male and female fertility, effects in men and women. (Acetone). (Methyl ethyl ketone) does not cause effects on sexual function or fertility. (Methanol)

**Effects on or via Lactation**
Can transfer to mother's milk.

**Interactive Effects**
No information was located.
# SECTION 12. ECOLOGICAL INFORMATION

## Toxicity

### Acute Aquatic Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50 Fish</th>
<th>EC50 Crustacea</th>
<th>ErC50 Aquatic Plants</th>
<th>ErC50 Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>8300 mg/L (Lepomis macrochirus (bluegill))</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>3130-3320 mg/L (Pimephales promelas (fathead minnow); 96-hour)</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>15400 mg/L (Lepomis macrochirus (bluegill); 96-hour)</td>
<td>10000 mg/L (Daphnia magna (water flea); 48-hour)</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>7.63 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)</td>
<td>8 mg/L (Daphnia magna (water flea); 24 hr)</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

### Chronic Aquatic Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NOEC Fish</th>
<th>EC50 Fish</th>
<th>NOEC Crustacea</th>
<th>EC50 Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>400 mg/L (salt water)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>7900 mg/L (Lepomis macrochirus (bluegill); 200-hrs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>5.44 mg/L (Oncorhynchus mykiss (rainbow trout))</td>
<td></td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

## Persistence and Degradability

No information was located.

## Bioaccumulative Potential

No information was located.

## Mobility in Soil

No information was located.

## Other Adverse Effects

There is no information available.

# SECTION 13. DISPOSAL CONSIDERATIONS

## Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN No.</th>
<th>Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian TDG</td>
<td>1263</td>
<td>PAINT RELATED MATERIAL SOLUTION</td>
<td>3</td>
<td>II</td>
</tr>
<tr>
<td>US DOT</td>
<td>1263</td>
<td>PAINT RELATED MATERIAL SOLUTION</td>
<td>3</td>
<td>II</td>
</tr>
</tbody>
</table>

Special Precautions for User

Please note: In containers of 5 L (5Kg) capacity or less this product is classified as a "Limited Quantities" Consumer Commodity under TDG regulations.
In containers of 5 L (5Kg) capacity or less this product is classified as a "Consumer Commodity" under DOT regulations.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)
All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Compliance and Regulatory Department
Phone No. 905-878-5544
Date of Preparation April 28, 2015

Additional Information

We are committed to uphold the Industry Consumer Ingredient Communication Voluntary Initiative.
Please send us your request by visiting our website at www.recochem.com.

Ingredients present (intentionally added ingredients) at a concentration of greater than one percent (1%) shall be listed in descending order of predominance. Ingredients present at a concentration of not more than one percent shall be listed but may be disclosed without respect to order of predominance.

Disclaimer

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.