

Lacquer Thinner

SECTION 1. IDENTIFICATION

| | |
|--------------------------------------|--|
| Product Identifier | Lacquer Thinner |
| Other Means of Identification | None |
| Product Code(s) | LA1910 |
| Product Family | Organic solution |
| Recommended Use | Paint thinner. |
| Restrictions on Use | None known. |
| Manufacturer | Nexeo Solutions LLC, 3 Waterway Square Place Suite 1000, Woodlands, Texas, 77380, 1-800-292-3336 |
| Supplier Identifier | Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995 |
| Emergency Phone No. | CANUTEC CANADA, 613-996-6666, 24 Hours |
| SDS No. | 0038 |

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Flammable liquid - Category 2; Acute toxicity (Oral) - Category 2

Label Elements



Signal Word:
Danger

Hazard Statement(s):

Extremely flammable liquid and vapour.
Harmful if swallowed, in contact with skin or if inhaled.
Causes severe skin burns and eye damage.
May cause drowsiness or dizziness.
May cause genetic defects.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustibles/
Keep only in original packaging.
Keep container tightly closed.

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water/
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTRE or doctor.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

| Chemical Name | CAS No. | % | Other Identifiers |
|------------------------|----------|---------|----------------------------|
| Toluene | 108-88-3 | 70 - 80 | Methylbenzene, Toluol |
| Methyl ethyl ketone | 78-93-3 | 10 - 15 | 2-Butanone, MEK |
| Methyl isobutyl ketone | 108-10-1 | 10 - 15 | 4-Methyl-2-pentanone, MIBK |

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Quickly and gently blot or brush away excess chemical. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens until flushing is done. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Ingestion

Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. IMMEDIATELY contact local Poison Control Centre. Vomiting should only be induced under the direction of a physician or a poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. IMMEDIATELY transport victim to an emergency facility.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled and/or swallowed: can cause severe irritation of the nose and throat. Can cause severe lung injury. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest. Can harm the nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. Kidney function tests may show abnormal results. May cause permanent damage to organs including the brain and heart.

Immediate Medical Attention and Special Treatment

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Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour. Closed containers may rupture violently when heated releasing contents.

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Fight fire from a protected, explosion-resistant location or maximum distance possible. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Use water spray to flush spills away from ignition sources. Dike and recover contaminated water for appropriate disposal.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Increase ventilation to area or move leaking container to a well-ventilated and secure area. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Eliminate all ignition sources if safe to do so.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Ventilate the area to prevent the gas from accumulating, especially in confined spaces. Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Store recovered product in suitable containers that are: tightly-covered.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Electrically bond and ground equipment. Ground clips must contact bare metal. Only use where there is adequate ventilation. Avoid generating vapours or mists. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Store in closed containers in a dry, well-ventilated area. Do not store near extreme heat, open flame, or sources of ignition. Restrict access to authorized personnel only. Store in a closed container. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Separate from incompatible materials (see Section 10: Stability and Reactivity), clear of combustible and flammable materials (e.g. old rags, cardboard), an approved, fire-resistant area. Keep amount in storage to a minimum. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Control Parameters

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|------------------------|------------|---------|----------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Methyl ethyl ketone | 200 ppm | 300 ppm | 200 ppm | | | |
| Methyl isobutyl ketone | 20 ppm A3 | 75 ppm | 50 ppm | | | |
| Toluene | 20 ppm A4 | | 100 ppm | | | |

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

Appropriate Engineering Controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Individual Protection Measures

Eye/Face Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Protective clothing (gloves, coveralls, boots, etc.) should be worn as needed to prevent prolonged or repeated skin contact with liquid methyl isobutyl ketone.

Respiratory Protection

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

| | |
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| Appearance | liquid. |
| Odour | Not available |
| Odour Threshold | Not available |
| pH | Not available |
| Melting Point/Freezing Point | Not available (melting) |
| Initial Boiling Point/Range | 79.60 °C (175.28 °F) |
| Flash Point | -6.67 °C (19.99 °F) |
| Evaporation Rate | > 1 (diethyl ether = 1) |
| Flammability (solid, gas) | Not available |
| Upper/Lower Flammability or Explosive Limit | 12% (upper); 1.27% (lower) |
| Vapour Pressure | 12.13 kPa at 25 °C |
| Vapour Density (air = 1) | > 1 |
| Relative Density (water = 1) | 0.855 at 25 °C |
| Solubility | Not available in water |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available (kinematic); Not available (dynamic) |

Other Information

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SECTION 10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong acids (e.g. hydrochloric acid), oxidizing agents (e.g. peroxides), strong reducing agents (e.g. hydrides), halogens (e.g. chlorine), strong bases (e.g. sodium hydroxide), aldehydes (e.g. acetaldehyde), amines (e.g. triethylamine).

Hazardous Decomposition Products

May form carbon dioxide and carbon monoxide, various hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion; skin absorption.

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|------------------------|---|-----------------------|-----------------------|
| Methyl ethyl ketone | 32,000 mg/m ³ (male mouse) (4-hour exposure) | 2,737 mg/kg (rat) | 6,480 mg/kg (rabbit) |
| Methyl isobutyl ketone | 2000-4000 ppm (rat) (4-hour exposure) | 2080 mg/kg (rat) | > 3000 mg/kg (rabbit) |
| Toluene | 7585 ppm (rat) (4-hour exposure) | 5580 mg/kg (male rat) | 12125 mg/kg (rabbit) |

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Human experience and animal tests show moderate or severe irritation. Symptoms include pain, redness, and swelling.

Serious Eye Damage/Irritation

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

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

At low concentrations not harmful At high concentrations may be harmful nose and throat irritation, depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

Can cause effects as described for inhalation.

Ingestion

Can cause effects as described for inhalation. A laxative effect if large amounts are swallowed. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Causes harmful effects on the kidneys, harmful effects on the heart, harmful effects on the liver, effects on the central nervous system, effects on the peripheral nervous system, hearing loss. Blood tests may show abnormal results.
(Toluene)

Respiratory and/or Skin Sensitization

No information was located. No information was located.

Carcinogenicity

| Chemical Name | IARC | ACGIH® | NTP | OSHA |
|------------------------|---------------|------------|------------|------|
| Methyl ethyl ketone | Not evaluated | Not Listed | Not Listed | |
| Methyl isobutyl ketone | Group 2B | | | |
| Toluene | Group 3 | | | |

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans.

ACGIH® = American Conference of Governmental Industrial Hygienists.

NTP = National Toxicology Program.

Reproductive Toxicity

Development of Offspring

Animal studies show effects on the offspring. Conclusions cannot be drawn from the limited studies available.
(Toluene)

Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

| Regulation | UN No. | Proper Shipping Name | Transport Hazard Class(es) | Packing Group |
|--------------|--------|--|----------------------------|---------------|
| Canadian TDG | UN1993 | Flammable Liquids, n.o.s. (Methyl isobutyl ketone, Toluene, Methyl Ethyl Ketone) | 3 | II |
| US DOT | UN1993 | Flammable Liquids, n.o.s. (Methyl isobutyl ketone, Toluene, Methyl Ethyl Ketone) | 3 | II |

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| IATA (Air) | UN1993 | Flammable Liquids, n.o.s. (Methyl isobutyl ketone, Toluene, Methyl Ethyl Ketone) | 3 | II |
|------------|--------|--|---|----|

Environmental Hazards Not applicable

Special Precautions Not applicable

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)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 2 Flammability - 3

SDS Prepared By Alphachem Limited

Phone No. (905)-821-2995

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