

# SAFETY DATA SHEET

## Lloyds Laboratories Inc.

### Resin Remover – Part #67414

#### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

**Identification of Preparation:** Resin Remover

**Date of Safety Data Sheet:** March 15, 2018

**Use of Preparation:** Resin remover.

**Company Identification:** Lloyds Laboratories Inc.  
613 Neal Drive,  
Peterborough, Ontario  
K9J 6X7

**Company Telephone Number:** 800 361-6766

**24 Hour Telephone Number:** CANUTEC 613-996-6666 or \*666 for cell phone.

#### 2. HAZARD IDENTIFICATION

**Emergency Overview:**  
**OSHA/WHMIS 2015 Hazards**  
**Classification of substance or mixture**  
**GHS-US/Canadian classification:**  
**GHS Hazards:**  
Flammable Aerosol Category 1.  
Acute toxicity, Category 4, Inhalation.  
Skin irritation, Category 2.  
Eye irritation, Category 2A.  
Reproductive toxicity, Category 1B.

#### Label Elements

#### GHS Labeling

#### Hazard Pictograms (GHS):



**Signal Word (GHS):** Danger!

#### PHYSICAL HAZARDS:

#### HEALTH HAZARDS:

H222: Extremely flammable aerosol.  
H227: Combustible liquid.

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H280: Compressed gas.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.  
 H360: May damage fertility or the unborn child.

#### ENVIRONMENTAL HAZARDS:

H401: Toxic to aquatic life.

#### Prevention:

P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P210: Keep away from heat, hot surfaces and direct sunlight.  
 P211: Do not spray on an open flame or other ignition source.  
 P252: Do not pierce or burn, even after use.  
 P243: Take precautionary measures against static discharge.  
 P260: Do not breathe dust/fume/gas/mist/vapour/spray.  
 P264: Wash skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313: IF exposed or concerned: Get medical advice/attention.  
 P321: Specific treatment (see supplemental first aid instructions on this label).  
 P331: Do NOT induce vomiting.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P362 + P364: Take off contaminated clothing and wash it before reuse.  
 P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: Chemical.

Ingredient	CAS#	% by Wt	Classification
N-Methyl Pyrrolidone	872-50-4	30-60	Flammable Liquids Category 4 Eye irritation Category 2A Reproductive toxicity Category 1B Specific target organ systemic toxicity - single exposure Category 3

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Dimethyl Glutarate	1119-40-0	15-30	Eye irritation Category 2A
Dimethyl Succinate	106-65-0	5-10	Eye irritation Category 2A
Dimethyl Adipate	627-93-0	1-5	Eye irritation Category 2A
Propane	74-98-6	7-13	Flammable gas 1 Liquefied gas
Butane	106-97-8	7-13	Flammable gas 1 Liquefied gas

**4. FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. If symptoms persist consult physician.

**Eye Contact:** Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin Contact:** Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

**Ingestion:** Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personnel. Never give anything to an unconscious person. Get medical aid.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Water spray or fog, foam, dry chemical, CO2.

**Unsuitable extinguishing media:** None known.

**Special exposure hazards:** Fire or excessive heat may produce hazardous decomposition products.

**Special safety equipment:** Self-contained positive pressure breathing apparatus and protective clothing.

**Fire and explosion:** Flammable aerosol. Under fire conditions closed containers may rupture or explode. Bursting aerosol containers may be propelled from fire at high speed. Vapours may travel long distances along the ground before igniting/ flashing back vapour to source.

**Further information:** Keep containers and surroundings cool with water spray.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe mist.

**For Non-Emergency Personnel**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

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**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

**Environmental Precautions**

Prevent entry to sewers and public waters.

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any powder spills with dikes to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections:** See Heading 8. Exposure controls and personal protection.

## 7. HANDLING AND STORAGE

### Handling

**Advice on safe handling:**

Use only in area provided with appropriate exhaust ventilation. Handle empty containers with care - residue may be combustible and burn if exposed to heat/sparks/open flame. In addition to the fire/explosion hazard, residual vapour and liquid may also be toxic. Keep container tightly closed when not in use. Keep away from heat and sources of ignition. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Wear recommended personal protective equipment. Avoid contact with incompatible agents. Observe precautions pertaining to confined space entry.

**Advice on protection against fire and explosion:**

Keep away from heat and sources of ignition.

Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Storage

**Requirements for storage areas and containers:**

Mild or stainless steel. Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Keep container tightly closed and properly labeled.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory protection:**

Use local exhaust or dilution ventilation.

**Hand protection:**

Chemical resistant gloves.

**Eye protection:**

Safety goggles.

**Skin protection:**

Use body-covering clothing.

**Working hygiene:**

Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

**Exposure Guidelines:**

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Concentration	Basis
N-Methyl Pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	urine	end of shift	100 mg/l	ACGIH_BEIS

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#### Exposure controls

Engineering measures at elevated temperatures, special ventilation may be required even if the flash point has not been exceeded. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Personal protective equipment.

#### Respiratory protection:

No occupational exposure limits have been developed for this material.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### Hand protection:

Use chemical resistant gloves appropriate to conditions of use. Wear chemical resistant gloves such as: Butyl rubber. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

#### Eye and face protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapour.

#### Skin and body protection:

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Use PPE that is chemical resistant to the product and prevents skin contact.

#### Hygiene measures:

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Weight:</b>	No data available.	<b>Evaporation Rate (BuAc=1):</b>	No data available.
<b>Appearance:</b>	Clear colourless to yellow liquid.	<b>Vapour Density (Air=1):</b>	No data available.
<b>Odour:</b>	Solvent scent.	<b>Specific Gravity:</b>	0.9 g/cm <sup>3</sup> @ 15.5C.
<b>Odour Threshold:</b>	No data available.	<b>Solubility in Water:</b>	Not Soluble.
<b>pH:</b>	No data available.	<b>Log Pow (calculated):</b>	No data available.
<b>Melting Point:</b>	No data available.	<b>Autoignition Temperature:</b>	No data available.
<b>Boiling Point/Range:</b>	No data available.	<b>Decomposition Temperature:</b>	No data available.
<b>Flash Point:</b>	No data available.	<b>Viscosity:</b>	No data available.
<b>Flammable Limits in Air:</b>	No data available	<b>Percent Volatile by Volume:</b>	No data available.
<b>Lower Explosion limit:</b>	No data available.		
<b>Upper Explosion limit:</b>	No data available.		

## 10. STABILITY AND REACTIVITY

#### Reactivity

Stable at normal ambient temperature and pressure.

#### Chemical stability

No decomposition if stored and applied as directed.

#### Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas. Do not store with strong oxidizing agents.

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**Hazardous decomposition products** Hazardous gases and vapours produced in fire are oxides of carbon.  
**Materials to avoid** Oxidizing agents.  
**Hazardous polymerization** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

#### Carcinogenicity:

#### Chemical Name CAS Number IARC NTP OSHA

No ingredient listed.

#### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No data available for mixture.

**Reproductive:** Pyrolidone: May harm the unborn child.

**Carcinogen:** Pyrolidone: Not classified. This product has had a positive finding in a carcinogenic investigation. The findings do not appear to be relevant to classification due to the non-genotoxic mechanism and the species sensitivity to the liver tumors observed.

#### Target Organ Effects:

**Acute:** No information available.

**Chronic:** None known.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Not classified.

**Persistence and Degradability:** Not available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** Not available.

**Other Adverse Effects:**

**Other Information:** Avoid release to the environment.

**Aquatic Toxicity:** No data available.

**Toxicity to algae, fish invertebrates:** No data available.

**Biodegradation:** No data available.

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#### 13. DISPOSAL

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

**Empty Containers:** Do not pierce, drill or burn even after use. Container under pressure.

#### 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT):** Limited quantity. UN 1950 Aerosols, Class 2.1.

**Canadian TDG (Road & Rail):** Limited quantity. UN 1950 Aerosols, Class 2.1.

#### 15. REGULATION

**Canadian Domestic Substance List (DSL):** Listed.

Personal Protection: B.

**SDS US** (GHS HazCom 2012).

**SDS CDN** (GHS WHIMS 2015).

#### 16. OTHER INFORMATION

**Prepared By:** Technical Department

**Issuing Date:** March 15, 2018

**Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the 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.

**End of Safety Data Sheet**