

SECTION 1: Identification

1.1. Product identifier

| | |
|-------------------------------|----------------------------|
| Product form | : Mixtures |
| Product name | : LIPROL P350 |
| CAS-No. | : Proprietary |
| Product code | : 70-2350 |
| Product group | : Raw material |
| Other means of identification | : Plant Lipid Based Polyol |

1.2. Recommended use and restrictions on use

| | |
|-----------------------------------|---|
| Recommended uses and restrictions | : Raw material for the manufacture of polyurethane foams and coatings |
|-----------------------------------|---|

1.3. Supplier

Manufacturer

Meadow Polymers. A division of Consolidated Biofuels Ltd
 7961 Vantage Way
 V4G 1A6 Delta
 T 604-946-7626
info@consolidatedbiofuels.net

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | : Emergency Contact (24-hour number): Canutec 1-888-CAN-UTEC (226-8832) or Cellular: *666 |
|------------------|---|

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

| | |
|---|------|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2A | H319 |
| Carcinogenicity, Category 2 | H351 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |
| Full text of H statements : see section 16 | |

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)



Signal word (GHS-CA)

: Warning

Hazard statements (GHS-CA)

: H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H351 - Suspected of causing cancer.
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-CA)

: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 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 instruction on this label)
 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.
 P391 - Collect spillage.
 P405 - Store locked up.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS-CA) |
|--------|--------------------------|-----------------------|-------|-------------------------|
| Polyol | | (CAS-No.) Proprietary | ~ 100 | Not classified |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Get medical advice/attention if you feel unwell. Remove the victim into fresh air. Give oxygen or artificial respiration if necessary.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Take victim to a doctor/medical service if irritation persists.
- First-aid measures after ingestion : Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May be harmful if swallowed and enters airways. Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause moderate irritation.
- Symptoms/effects after eye contact : May cause eye irritation.
- Symptoms/effects after ingestion : May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, or water spray or regular foam.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium.

5.3. Specific hazards arising from the hazardous product

No additional information available

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Self-contained breathing apparatus.
- Other information : High temperature decomposition products are harmful by inhalation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Remove ignition sources.

6.2. Methods and materials for containment and cleaning up

- For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
- Methods for cleaning up : Clean contaminated surfaces with a soap solution.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat. Store in tightly closed, leak-proof containers.

Storage conditions : Store locked up. Keep cool. Store in a well-ventilated place. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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| | | |
|-------------|--------------------------------|---------------------|
| USA - ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ |
|-------------|--------------------------------|---------------------|

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure that there is a suitable ventilation system.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Protective goggles.

Hand protection:

Nitrile rubber gloves

Eye protection:

Chemical goggles or face shield

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Appearance | : No data available |
| Colour | : clear Amber |
| Odour | : Oil-like odour |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 250 °C |
| Flash point | : > 150 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Vapour pressure at 50 °C | : No data available |
| Relative density | : No data available |
| Density | : ≈ 0.97 g/ml |
| Solubility | : No data available |

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| | |
|----------------------|---------------------|
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 800 - 900 cP |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------------------------------|--|
| Reactivity | : On burning: release of toxic and corrosive gases/vapours (ammonia, nitrous vapours, carbon monoxide - carbon dioxide). |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : No flames, no sparks. Eliminate all sources of ignition. |
| Incompatible materials | : Oxidizing agent. Acids. |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---------------------------|
| Acute toxicity (oral) | : Oral: Not classified. |
| Acute toxicity (dermal) | : Dermal: Not classified. |
| Acute toxicity (inhalation) | : Not classified |

| LIPROL P350 (/f)Proprietary | |
|-------------------------------|---------------|
| LD50 oral rat | ≈ 10000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| LIPROL P350 (Proprietary) | |
|---------------------------|----------|
| LC50 fish 1 | 5.1 mg/l |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| | |
|----------------|---------------------------------------|
| GWPMix comment | : No known effects from this product. |
|----------------|---------------------------------------|

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|------------------------------|--|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
|------------------------------|--|

SECTION 14: Transport information

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14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : Not regulated
Transport document description : Not regulated

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

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Listed on the Canadian NDSL (Non-Domestic Substances List)

15.2. International regulations

No additional information available

SECTION 16: Other information

SDS Major/Minor : None
Date of issue : 02/02/2018
Revision date : 06/28/2018

Full text of H-statements:

| | |
|------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| H411 | Toxic to aquatic life with long lasting effects. |

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product