This SDS adheres to the standards and regulatory requirements of India and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: Bensulfuron Methyl + Pretilachlor

Other names: LONDAX POWER C12335417

Recommended use of the chemical and restriction on use
Recommended use: Herbicide

Manufacturer, importer, supplier
Company: E. I. DuPont India Pvt. Ltd.
Street address: 7th Floor, Tower C, DLF Cyber Greens, Sector 25A, DLF City Phase III, Gurgaon - 122002, Haryana India
Telephone: +91-124-2540900
Telefax: +91-124-2540889 / 90 / 91 / 92
Emergency telephone number: +91-124-4092888 / +91-124-2353777

2. HAZARDS IDENTIFICATION

Product hazard classification

Endpoints which are not classified, cannot be classified or are not applicable are not shown.
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Mixture

Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bensulfuron methyl</td>
<td>83055-99-6</td>
<td>0.6 %</td>
</tr>
<tr>
<td>Pretilachlor</td>
<td>51218-49-6</td>
<td>6 %</td>
</tr>
<tr>
<td>Paraffin oils</td>
<td>8012-95-1</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>87.4 - 92.4%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

Skin contact: Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
**5. FIREFIGHTING MEASURES**

| Suitable extinguishing media | Water spray, Foam, Dry chemical, Carbon dioxide (CO2) |
| Unsuitable extinguishing media | High volume water jet, (contamination risk) |
| Specific hazards | No information available. |
| Special protective equipment for firefighters | In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment. |
| Specific extinguishing methods | No information available. |
| Further information | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. (on small fires) Cool containers/tanks with water spray. |

**6. ACCIDENTAL RELEASE MEASURES**

| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. |
| Environmental precautions | Prevent material from entering sewers, waterways, or low areas. |
| Methods and materials for containment and cleaning up | Sweep up and shovel into suitable containers for disposal. |
| Additional advice | Dispose of in accordance with local regulations. |
7. HANDLING AND STORAGE

Handling

Technical measures/Precautions: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Precautions for safe handling: Under severe dusting conditions, this material may form explosive mixtures in air.

Storage

Suitable storage conditions: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Occupational Exposure Limits</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin oils</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STEL</td>
<td>10 mg/m³ (Mist.)</td>
<td>IN OEL (2001)</td>
</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³ (Mist.)</td>
<td>IN OEL (2001)</td>
</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³ (Inhalable fraction.)</td>
<td>US ACGIH (2011)</td>
</tr>
</tbody>
</table>

Engineering measures: Use only with adequate ventilation.

Biological occupational exposure limits: No information available.

Personal protective equipment

Respiratory protection: Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection: Material: Protective gloves

Eye protection: Wear protective eyewear to prevent contact with this substance.

Skin protection: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.

Protective measures: End users of this product should follow label instructions for personal protection when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES
### Appearance (Physical state, form, colour, etc.)
- **Physical state**: solid
- **Form**: dry, free flowing granules
- **Colour**: light brown

### Odour
- **Odour**: not significant

### Odour Threshold
- **Odour Threshold**: No information available.

### pH
- **pH**: 9 - 10.5  
  (1% solution)

### Melting point/freezing point
- **Melting point/freezing point**: No information available.

### Initial boiling point and boiling range
- **Initial boiling point and boiling range**: No information available.

### Flash point
- **Flash point**: No information available.

### Evaporation rate
- **Evaporation rate**: No information available.

### Flammability (solid, gas)
- **Flammability (solid, gas)**: No information available.

### Upper/lower flammability or explosive limits
- **Upper explosion limit**: No information available.
- **Lower explosion limit**: No information available.

### Vapour pressure
- **Vapour pressure**: No information available.

### Vapour density
- **Vapour density**: No information available.

### Density
- **Density**: 0.9 - 1.3 g/cm³

### Solubility(ies)
- **Water solubility**: No information available.

### Partition coefficient: n-octanol/water
- **Partition coefficient: n-octanol/water**: No information available.

### Auto-ignition temperature
- **Auto-ignition temperature**: No information available.

### Decomposition temperature
- **Decomposition temperature**: No information available.

### Viscosity
- **Viscosity, kinematic**: No information available.

### Molecular weight
- **Molecular weight**: No information available.

### 10. STABILITY AND REACTIVITY
- **Reactivity**: No information available.
11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral
- Bensulfuron methyl: LD50/Rat: > 5,000 mg/kg
- Pretilachlor: LD50/Mouse: 1,800 mg/kg
- Paraffin oils: LD50/Rat: > 5,000 mg/kg

Inhalation
- Bensulfuron methyl: LC50/4 h/Rat: > 7.5 mg/l
- Pretilachlor: Toxic effects can not be excluded

Dermal
- Bensulfuron methyl: LD50/Rabbit: > 2,000 mg/kg
- Pretilachlor: LD50/Rat: > 3,100 mg/kg
- Paraffin oils: LD50/Rabbit: > 2,000 mg/kg

Skin corrosion/irritation
- Bensulfuron methyl: Species: Rabbit
  Result: No skin irritation
  Classification: No skin irritation
- Pretilachlor: Species: Rabbit
  Result: Severe skin irritation
  Classification: Irritating to skin.
- Paraffin oils: Species: Not tested on animals
  Result: No skin irritation
  Classification: Not classified as irritant
  Method: OECD Test Guideline 404

Serious eye damage/eye irritation
- Bensulfuron methyl: Species: Rabbit
  Result: No eye irritation
- Pretilachlor: Species: Rabbit
  Result: Irritation to eyes, reversing within 7 days
  Classification: Mild eye irritation
- Paraffin oils: Species: multiple species
  Result: Mild eye irritation
  Classification: Irritating to eyes.
  Method: OECD Test Guideline 405

Respiratory or skin sensitisation
- Bensulfuron methyl: Species: Guinea pig
  Result: Did not cause sensitisation on laboratory animals.
- Paraffin oils: Species: Not tested on animals
  Result: Does not cause skin sensitisation.
  Classification: Does not cause skin sensitisation.
Germ cell mutagenicity
Bensulfuron methyl: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Paraffin oils: Animal testing did not show any mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

Carcinogenicity
Bensulfuron methyl: Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
Paraffin oils: Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.

Reproductive toxicity
Bensulfuron methyl: Reproductive toxicity: No toxicity to reproduction. Animal testing showed no reproductive toxicity. Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Specific Target Organ Toxicity
Specific target organ toxicity - single exposure
Paraffin oils: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure
Paraffin oils: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
Paraffin oils: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Other
Bensulfuron methyl: Repeated dose toxicity: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Oral - feed/multiple species Liver effects Oral - feed/Rat/male 90 d altered hematology
Paraffin oils: Repeated dose toxicity: Oral/multiple species No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects
Acute and prolonged toxicity to fish
Bensulfuron methyl: LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 66 mg/l
Pretiachlor: LC50/96 h/Oryzias latipes (Orange-red killifish): 2.4 mg/l
13. DISPOSAL CONSIDERATIONS

Waste disposal methods: In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging: Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG
UN number: 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class: 9
Packing group: III
Marine pollutant: yes (Paraffin oils)

IATA
UN number: 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Paraffin oils)
Class: 9
Packing group: III
Matters needing attention for transportation: Not applicable
15. REGULATORY INFORMATION

Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet
1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001

References
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Revision Date/Version
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Version : 2.0

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Significant change from previous version is denoted with a double bar.

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