DUPONT INPUT® PENETRANT

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification  INPUT®
Product description  Penetrant, wetting agent
Recommended use  Penetrant, wetter for use with herbicides.
Company details  DuPont (New Zealand) Limited
Central Park Corporate Centre
Level 2, Building 5
666 Great South Road
Greenlane, Auckland 1051

Telephone  (09) 526 2501
Fax  (09) 526 2560
24-hour Emergency phone  0800 658 080
Date of issue  May 2013

2. HAZARDS IDENTIFICATION

HSNO Classification  6.1D (acute oral toxicant), 6.3A (skin irritant), 9.1B (aquatic toxicant)
Hazard  Harmful—may be harmful if swallowed, inhaled or absorbed through the skin. Ecotoxic - toxic to aquatic organisms with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients  CAS No  Proportion
Polyether modified polysiloxane  134180-76-0  75%

4. FIRST AID MEASURES

Inhalation  If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek Medical attention.
Skin Contact  In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Eye Contact  In all cases of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek Medical attention.
Ingestion  No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, seek Medical attention if necessary.
Notes to Physician  Of low toxicity, but moderately irritating to skin. Because of its irritant and surface active properties this material may pose a serious aspiration hazard. Therefore the contents of the stomach require to be evacuated with caution in cases of poisoning by swallowing. There is no specific antidote. Treatment is directed at the control of symptoms and the
clinical condition of the patient.

5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Flammable properties</th>
<th>Flash Point: 115°C (Pensky-Martens closed cup.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing media</td>
<td>Use alcohol-type or universal-type foams applied for large fires or carbon dioxide or dry chemical for small fires. Don’t spray a solid stream of water or foam directly into a pool of hot burning liquid. This may cause frothing.</td>
</tr>
<tr>
<td>Fire fighting instructions</td>
<td>Use self-contained breathing apparatus when fighting fire in an enclosed area.</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>3Z</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Spill precautions</th>
<th>Use appropriate Personal Protective Equipment during clean up. (See Section 8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spill containment</td>
<td>Dyke spill. Prevent liquid from entering the sewers, waterways, or low areas.</td>
</tr>
<tr>
<td>Spill clean-up</td>
<td>Shovel or sweep up. DO NOT flush with water. Place material in a clean, dry container and cover for disposal. Wash contaminated areas with water and detergent. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand or other absorbent material. Shovel or sweep up. Never return to container for reuse. (See section 13 for disposal instructions.)</td>
</tr>
</tbody>
</table>

7. HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Handling</th>
<th>Avoid skin and eye contact. Avoid inhaling the vapour, or spray mist. Wash thoroughly after handling. Wash clothing after use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight and under lock and key. Keep from contact with fertilisers, fungicides and seeds. Do not store with Classes 1, 2, 3.2, 4 or 5 substances. Stores containing more than 1,000L of this product, either alone or in aggregate with other hazardous substances are subject to requirement of an emergency management response plan, secondary containment and signage.</td>
</tr>
</tbody>
</table>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Personal Protection</th>
<th>Do not get in eyes, avoid contact with skin and clothing. Avoid breathing vapour. Wash thoroughly after handling.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Clothing</td>
<td>PVC gloves, goggles/face mask.</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour</td>
<td>Straw coloured liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>moderate polyether odour</td>
</tr>
<tr>
<td>Flash Point</td>
<td>115°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.007 @ 25°C</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Non-corrosive</td>
</tr>
<tr>
<td>Oxidisation</td>
<td>Not an oxidiser</td>
</tr>
</tbody>
</table>

(Also, see sections 5 & 10)

10. STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Effects
- **Eye**: Causes severe excess redress and swelling of the conjunctiva with chemical burns of the cornea.
- **Skin**: Prolonged or widespread skin contact may result in the absorption of potentially harmful amounts of material.
- **Inhaled**: No evidence of adverse effects from available information.
- **Swallowed**: Slightly toxic. May cause nausea, abdominal discomfort, vomiting and diarrhoea.

Toxicity Data
- Acute oral LD$_{50}$ (rat) 3,200 mg/kg
- Acute dermal LD$_{50}$ (rat) 1,500 mg/kg
- Inhalation LD$_{50}$ (rat) 1.08 mg/L (4hr)

12. ECOLOGICAL DATA

Fish LC$_{50}$ rainbow trout 2.1 mg/L, daphnia EC$_{50}$ 1.1 mg/L, algae 28.2 mg/L. Toxic to aquatic organisms with long lasting effects. (9.1B)

Avoid contamination of water supplies with chemical or empty container.

13. DISPOSAL CONSIDERATIONS

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label directions. Dispose of solid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.
14. TRANSPORT INFORMATION

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Polyethersiloxane)

D.G Class: 9
UN Number: 3082
Pack Group: III
Hazchem: 3Z
IMDG: Marine Pollutant
Trade Names: Input®

15. REGULATORY INFORMATION

HSNO Approval Code: HSR000583
HSNO Controls (inc. Tracking and Record Keeping): See www.epa.govt.nz/ for controls.
Approved handler: This product must be under the control of an approved handler during use.
ACVM Registration: N/A
ACVM Controls: See www.foodsafety.govt.nz/ for registration conditions.

16. OTHER INFORMATION

Glossary

ACGIH: American Conference of Governmental Industrial Hygienists.
DT₅₀: Time (days) for 50% loss.
EC₅₀: Median effective concentration.
EEL: Environmental Exposure Limit.
ERMA: Environmental Risk Management Authority
HSNO: Hazardous Substances and New Organisms.
IARC: International Agency for Research on Cancer.
Kₒc: Organic carbon partition coefficient (ml soil water/g organic carbon)
LC₅₀: Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD₅₀: Lethal dose to kill 50% of test animals/organisms.
NOEL: No observable effect level.
OSHA: American Occupational Safety and Health Administration.
Pₒw: The octanol-water partition coefficient is the ratio of the concentration of a chemical in octanol and in water at equilibrium at a specified temperature.
TEL: Tolerable Exposure Limit.
TLV: Threshold Limit Value—an exposure limit set by responsible authority.
<table>
<thead>
<tr>
<th>WES</th>
<th>Workplace Exposure Limit</th>
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</thead>
<tbody>
<tr>
<td><strong>Miscellaneous</strong></td>
<td>The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process</td>
</tr>
</tbody>
</table>

**Responsibility for MSDS**  
DuPont (New Zealand) Limited  
For further information phone (09) 268 5500

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