1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name: Imidacloprid 70% WS
Chemical Name: \((E)-1-(6\text{-chloro-3-pyridylmethyl})-N\text{-nitroimidazolidin-2-ylideneamine}\)
Brand Name: 
Molecular Formula: C9H10ClN5O2
Manufacturer: CROP LIFE SCIENCE LTD.
Address: Plot No. 5165, 5166, 5151, G.I.D.C., Ankleshwar-393002, Gujarat, India
Tele Fax Number: 91 2646 238479

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No. / EC-No</th>
<th>Symbol(s)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3 / 428-040-8</td>
<td>Xn, N</td>
<td>70.00</td>
</tr>
<tr>
<td>Alkyl aryl sulfonate</td>
<td>91078-64-7 / 293-346-9</td>
<td>Xn</td>
<td>&gt; 1.00 - &lt; 5.00</td>
</tr>
<tr>
<td>Alkyl polyglycol ether</td>
<td>68213-23-0 / 500-201-8</td>
<td>Xn</td>
<td>&gt; 1.00 - &lt; 20.00</td>
</tr>
</tbody>
</table>

3. HEALTH HAZARDS IDENTIFICATION

This product is considered to be hazardous.
Main hazards: Harmful
Most important adverse physicochemical: Potential dust explosion hazard.
Effects
Adverse human health effects: Harmful if swallowed.
Environmental hazard: Not expected.

4. FIRST AID MEASURES

First aid
- Inhalation: Remove victim to fresh air. Keep the affected person warm. Seek medical attention if ill effect develops.
- **Skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.

- **Eye contact**: Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Obtain medical attention.

- **Ingestion**: Give water to drink. Seek medical attention if ill effect develops.

**Note to physician**: Give supportive therapy. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media**

- **Suitable**: carbon dioxide, foam, sand, powder, water spray

**Special exposure hazards**: Thermal decomposition generates: carbon dioxide, carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides.

**Protection against fire**: Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

**Special procedures**: Avoid (reject) fire-fighting water to enter environment.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wear recommended personal protective equipment. See Heading 8.

**Environmental precautions**: Prevent entry to sewers and public waters.

**After spillage and/or leakage**: Sweep or shovel spills into appropriate container for disposal. Dispose in a safe manner in accordance with local/national regulations.

### 7. HANDLING AND STORAGE

**General**: Potential dust explosion hazard.

**Handling**: Avoid contact with skin and eyes. Good ventilation of the workplace required. Avoid dust production.
Storage: Keep container closed when not in use.
Keep away from: direct sunlight
Keep away from sources of ignition - No smoking.
Storage temperature:
Maximum temperature: 40°C

8. EXPOSURE CONTROLS/PERSOANAL PROTECTION

Personal protection
- Respiratory protection: Approved respirator. (ABEK-P2 filter)
- Hand protection: Wear suitable gloves resistant to chemical penetration.
- Skin protection: Wear suitable protective clothing and chemical resistant boots
- Eye protection: Chemical goggles or face shield with safety glasses.

Industrial hygiene: Good ventilation of the workplace required. Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using.

Occupational Exposure Limits
TWA [mg/m3]: 10 (Imidacloprid)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: powder
Colour: Red.
Odour: Characteristic
pH value: 9.0 (1% aqueous solution)
Solubility in water: Dispersible
Auto-ignition temperature [°C]: > 225
Explosive properties: Potential dust explosion hazard.
Log P Octanol / water at 20°C: 0.57 (Imidacloprid)
10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.

Hazardous decomposition: Thermal decomposition generates: carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides

Hazardous reactions: None.

Materials to avoid: Strong oxidizing agents, Strong acids, bases.

Conditions to avoid: Heat, direct sunlight, open flame

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
- Oral: LD50 (rat): 300 - 500 mg/kg
- Dermal: LD50 (rat): > 2000 mg/kg
- Inhalation: LC50 (rat): > 5.3 mg/l/4h (Active ingredient)

Dermal irritation (rabbit): Slight skin irritant

Eyes irritation (rabbit): Slight eye irritant.

Sensitization: This material was found to be non-sensitizing in guinea pigs.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
- Fish: LC50 (96h): 301 mg/l Onchorhynchus mykiss
- Daphnia magna: EC50 (48h): 242 mg/l
- Algae: EC50 (72h): > 100 mg/l

13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Pesticide Disposal: Do not contaminate water, food, or feed by disposal. Pesticide wastes are acutely hazardous. Waste, including spill or rinsate, and leftover pesticide that cannot be used according to label instructions. Any disposed of according to applicable federal, state or local procedures. Any disposal practice must be in compliance with all Federal, State/provincial and local laws.
and regulations. Do not reuse empty container. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and local regulations. Do not flush to surface water or sanitary sewer systems. Do not reuse original container. Packaging that cannot be cleaned should be disposed of as product waste. Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN number</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Class and subsidiary Risk</td>
<td>Not “dangerous goods” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>EPG</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Hazchem code</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other information</td>
<td>Not dangerous cargo. Keep dry. Keep separated from foodstuffs.</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>EC Labelling</th>
<th>According to EU regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol(s)</td>
<td>Harmful</td>
</tr>
<tr>
<td>R Phrase(s)</td>
<td>R 22: Harmful if swallowed.</td>
</tr>
<tr>
<td>S Phrase(s)</td>
<td>S 2: Keep out of the reach of children.</td>
</tr>
<tr>
<td></td>
<td>S 13: Keep away from food, drink and animal feeding stuffs.</td>
</tr>
<tr>
<td></td>
<td>S 46: If swallowed, seek medical advice immediately and show this container or label.</td>
</tr>
<tr>
<td>Other</td>
<td>Contains: Imidacloprid</td>
</tr>
<tr>
<td></td>
<td>To avoid risks to man and the environment, comply with the instructions for use.</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

Disclaimer: the information and data contained herein are believed to be correct. The recommendations and suggestions for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of manufacturer. No guarantee express or implied is made as to the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. No statement is to be construed as violating any copyright or patents.