SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details
Product Name : 2-sec-Butylphenyl-N-methylcarbamate (BPMC)
Trade Name :
Chemical Name : 2-sec-Butylphenyl-N-methylcarbamate (BPMC)
Chemical Formula : C_{12}H_{17}NO_{2}
Molar Mass : 207.3
Chemical Family : Carbamate
Use : Insecticide
Structural Formula :

\[ \text{Butylphenyl-N-methylcarbamate (BPMC)} \]

1.2 Company Identification
Manufacturer
Name and Address : Shreeji Pesticides Pvt. Ltd.
(Sub. Of Willowood chemicals Pvt. Ltd.)
69/P, Village – Manjusar – 391775
Tal. Savli, Dist. Vadodara
State Gujarat, INDIA
Tel. No. : +912667 264701

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Proportion</th>
<th>Exposure Limit</th>
<th>Toxicity Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-sec-Butylphenyl-N-methylcarbamate</td>
<td>3766-81-2</td>
<td>50%</td>
<td>Refer to Section 9</td>
<td>Refer to Section 11</td>
</tr>
<tr>
<td>Surfactant</td>
<td>&lt; 15 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent</td>
<td>&lt; 50 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Slight yellowish liquid
Odour : Characteristic odour
Solubility : Miscible in water
Boiling Point (Technical) : 115 - 116°C / 0.02 mmHg
Melting Point (Technical) : 28 - 32°C
Vapour Pressure (Technical) : 7.4 x 10^{-5} mmHg at 20°C
Percentage Volatiles : No data available
Evaporation Rate : No data available
Vapour Density : No data available
Specific Gravity : 0.96
Flash Point : 30°C
Autoignition temperature : No data available
Flammable Limit : No data available

SECTION 4 : HAZARD IDENTIFICATION
Harmful in contact with skin
Toxic by inhalation and if swallowed
May cause sensitisation by skin contact

SECTION 5 : FIRST AID MEASURES
Ingestion : Induce vomiting after drinking warm salt water. Get prompt medical attention.
Eye contact : Immediately flush with plenty of water. Get medical attention.
Skin contact : Remove contaminated clothing and wash skin thoroughly with soap and water.
Inhalation : Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

Notes to physician :
Poisoning symptoms : Headache, dizziness, nausea, vomiting, excessive salivation, papillary constriction, stomach-ache, muscle twitching, impediment in speech and walking, clouding of consciousness and convulsion.
Medical treatment : An intravenous injection with 1.2 - 2 mg Atropine sulphate is repeated at intervals of 10 - 30 minutes until the throat and skin of patient are dried out. (Caution : An injection of PAM delays recovering.)

SECTION 6 : FIRE FIGHTING MEASURES
Extinguishing Media : CO₂, foam, dry powder.
Fire fighting instruction : Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.
Special hazards : No data available

SECTION 7 : ACCIDENTAL RELEASE MEASURE
Leak and/or Spill : Wear protective clothing. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

SECTION 8 : HANDLING AND STORAGE
Handling : Read the label before use. Wear pesticide respiratory masks, protective gloves and clothing while handling.
Storage: Keep in original container, tightly closed, in a cool dry and well-ventilated place, out of reach of children. Keep away from foodstuffs and animal feeds.

SECTION 9: EXPOSURE CONTROL AND PERSONAL PROTECTION
a. Exposure Limit (Technical): TLV 5 mg/m³
b. Engineering measures: Local exhaust ventilation
c. Personal protection: Wear pesticide respiratory masks, protective gloves and clothing.

SECTION 10: STABILITY AND REACTIVITY
Conditions to avoid: Direct sunlight, heat and extreme temperature
Incompatible: Decomposed in alkali and strong acid.
Decomposition Products: No data available
Hazardous polymerization: No data available
Stability: Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION (TECHNICAL)
Toxicity Data:
Acute Oral LD₅₀: (Rat) male 623 mg/kg
(Rat) female 657 mg/kg
(Mouse) male 182 mg/kg
(Mouse) female 173 mg/kg
Acute Dermal LD₅₀: (Mouse) > 4200 mg/kg
Acute Inhalation LC₅₀: (Rat) 0.366 mg/l air
Carcinogenicity: No data available
Reproductive Effect: No data available
Effects of overexposure: No data available
Chronic effects: No data available
Target organs: No data available
Medical Conditions: No data available
Generally Aggravated by Exposure: No data available

SECTION 12: ECOLOGICAL INFORMATION (TECHNICAL)
Mobility & Bioaccumulation: No data available
Biodegradability: No data available
Fish toxicity TLm (48 hr): (Carp) 12.6 ppm

Fish studies indicated residues remain in 0 - 4 in. Layer with half-life of 1 - 2 months. After 183 days, residues were at negligible or undetectable levels. Confined and field rotational crop data showed residues likely to occur in root crops at intervals of < 9 months.

SECTION 13: DISPOSAL INFORMATION
Dispose of according to local regulation.
SECTION 14 : TRANSPORT INFORMATION
Follow the precaution indicated in the storage and handling section. Follow all regulations in your country.

SECTION 15 : REGULATORY INFORMATION
Pesticides Act : Class II - Poisonous
CPL Regulation : Class - Toxic, Flammable
Risk Phrases : R10 Flammable
R21 Harmful in contact with skin
R23/25 Toxic by inhalation and if swallowed
R43 May cause sensitisation by skin contact
Safety Phrases : S1/2 Keep locked up and out of reach of children
S13 Keep away from food, drink and animal feeding stuff
S38 In case of insufficient ventilation, wear suitable respiratory equipment
S24 Avoid contact with skin
S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection