1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>NOVIL 76 EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Name</td>
<td>DICHLORVOS 76 %EC</td>
</tr>
<tr>
<td>Chemical Name of</td>
<td>2,2-dichlorovinyl dim ethyl phosphate</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Insecticide</td>
</tr>
<tr>
<td>Supplier</td>
<td>CHEMET WETS &amp; FLOWS P. LTD</td>
</tr>
<tr>
<td>Address</td>
<td>Plot no. 129/c/2, GIDC Estate, Ankleshwer 393002</td>
</tr>
<tr>
<td>Tel</td>
<td>91-2646 239490</td>
</tr>
<tr>
<td>Fax</td>
<td>02646-220254</td>
</tr>
<tr>
<td>Emergency Phone No.</td>
<td>02646-239490</td>
</tr>
<tr>
<td>Email Id</td>
<td><a href="mailto:chemetank@gmail.com">chemetank@gmail.com</a></td>
</tr>
</tbody>
</table>

2. COMPOSITION INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS NO</th>
<th>Percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlorvos EC</td>
<td>62-73-7</td>
<td>76%</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION SUMMARY

Potential Health Hazards

ROUTE (S) OF ENTRY: May be fatal if swallowed, inhaled, or absorbed through eye or skin. May produce acute cholinesterase depression. May cause corrosive destruction of the skin, mucous membranes produce acute cholinesterase depression May cause corrosive destruction of the skin. Mucous membranes and the eyes.
Sings of acute overexposure

Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, deadhead, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion; in extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur. This product is expected to be corrosive to the eyes. The degree of injury will depend on the amount and duration of the contact and the speed and thoroughness of the first aid treatment. Expected adverse health effects resulting from direct exposure to the eye may include pain, tears, swelling, redness, blurred vision, irreversible eye damage and possibly blindness. This product is expected to be corrosive to the skin. The degree of injury will depend on the amount and duration of the contact and the speed and thoroughness of the first aid treatment. The expected adverse health effects resulting from a direct exposure to the skin may include pain or a feeling of heat, discoloration, swelling, blistering, and irreversible tissue damage. This product is expected to be corrosive to the digestive tract, and, if ingested, may cause nausea, vomiting and diarrhea. This product is expected to be corrosive to the respiratory tract, and, if inhaled, may cause symptoms that include nasal discharge, sore throat, coughing, bronchitis, pulmonary edema, and difficulty in breathing.

Sings of Chronic overexposure

Repeated exposures to small doses of Nalco and other organophosphates may lower the cholinesterase to levels where the above symptoms of acute overexposure are observed.

Arclonogenicity

There is no evidence of carcinogenicity in laboratory animals tested with Nalco Technical. CARE SHOULD BE EXERCISED IN BANTLING THIS FORMULATION. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Preexisting conditions which lower cholinesterase levels increase vulnerability to cholinesterase depression. These include: (for plasma) genetic cholinesterase deficiency; advanced liver disease; chronic alcoholism; malnutrition; dermaunyositis; existing toxicity from exposure to carbon disulfide; benzalkonium salts, organic mercury compounds, ciguatoxins or solacing; and hemolytic anemia's.

4. FIRST AND MEASURES

THIS PRODUCT IS CORROSIVE TO EYES AND SKIN.

Eyes

Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids a part during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately. If there will be a delay in getting medical attention, rinse the eyes for at least another 15 minutes.

Inhalation

Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.
Ingestion

DO NOT induce vomiting. If victim is conscious, administer an 8 oz. glass of water containing 2 tbsp. activated charcoal. Have person lie on their left side to slow down absorption of the ingested material. Never give anything by mouth to an unconscious person. Contact a physician immediately. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. Contact a physician immediately.

NOTE TO PHYSICIANS

This is an Organophosphate. Insecticide Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. Do Not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrite) Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing including shoes, as a hazardous waste.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point. 174°F (Closed cup)
Auto ignition Temperature: No data available

Flammable Limits

Upper & lower Flammable limits : NDA

Flammability

This is a combustible liquid that will burn when heated EXPLOSIVITY
Mechanical Impact: Not explosive
Static Discharge: Will not occur

Hazardous Combustion Products

This product will emit toxic fumes when burned, including hydrogen chloride, hydrogen bromide, phosphorous oxides and carbon monoxide. Vapors of the unburned product are also hazardous. Contact with the fumes and vapors should be avoided.

Extinguishing Media

Foam, dry chemical, carbon dioxide, water spray (fog)

FIRE Fighting Instructions

Evacuate nonessential personnel from the area. Keep upwind Wear self-contained breathing apparatus and full bunker gear. Clean all clothing before reuse
6. ACCIDENTAL RELEASE MEASURES

**General**

Evacuate personnel and thoroughly ventilate the area. Use adequate ventilation and appropriate personal protective equipment. Keep bystanders upwind and away from the spill.

**Small Spills**

Cover with nonflammable absorbent (clay, sand, oil dry, and kitty litter. Etc.) To absorb the liquid. Sweep into an open plastic drum. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5% solution) and detergent. Flush the area with water. Absorb and sweep into the same open plastic drum. Close the drum and dispose of as a hazardous waste.

**Large Spill**

Dike the spill to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean the area as described for a small spill.

7. HANDLING AND STORAGE

**Handling**

Prevent skin contact. Do not breathe flutes. Wear appropriate personal protective equipment. (See Section 8) Wash thoroughly and change clothes after handling. Keep product away from food, drink, cosmetics, and tobacco products. See product label for more detailed handling procedures.

**Storage**

Do not contaminate water, food or feed by storage or disposal. Store product in a cool, dry, locked place out of reach of children. Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls**

A well-ventilated area is recommended for handling DDVP EC. Use of mechanical or local exhaust systems is recommended.

**Respiratory Protection**

When respiratory protection is required, or concentrations may exceed the PEL (Permissible Exposure Limit) use approved air-purifying respirator equipped with new organic vapor cartridges or canisters. A maximum use of eight hours is recommended. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

**Skin Protection**

Prevent skin contact. Chemical resistant gloves body covering clothing that has long sleeves and long pants, and chemical resistant shoes or boots are required to prevent skin contamination. Replace gloves
every eight hours or sooner if exposure has been heavy. A chemical relisting apron will provide additional protection when there is a risk of spillage or splashing. Wear clean clothes daily. Wash soiled clothes separately from other laundry. Wash thoroughly after handling this product. Sc; the label for more specific instructions.

Eye protection

Safety glasses should be worn whenever working with chemicals. Goggles or a cashed should be used if there is a chance of mist formation or splashing.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Blue amber liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic solvent odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>NDA</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>320 °F/160°C</td>
</tr>
<tr>
<td>Melting &amp; freezing point</td>
<td>60°F/15°C</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (Typical range):</td>
<td>1.67 @25°C</td>
</tr>
<tr>
<td>Density</td>
<td>13.9 lb/gal</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>10mm Hg @ 100 °C</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Soluble in acetone &amp; alcohols.</td>
</tr>
<tr>
<td>Ph</td>
<td>3.6 (1% Dilution in water)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NA</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical Stability

This product is stable under normal use and storage conditions. It may be photo-chemically reactive.

Incompatibility

Unstable in the presence of iron or alkaline media. Corrosive to iron, aluminum and magnesium. Hydrolyzes slowly under neutral or acid conditions.

Hazardous Decomposition Products

Heating product to decomposition will cause emission of acrid smoke and fumes of hydrogen chloride, hydrogen bromide, phosphorous oxides, Carbon oxides and unknown organic compounds.
11. TOXICOLOGICAL INFORMATION

Sensitization

Skin sensitization: Not a sensitizer (Mouse Local Lymph Node)

Corrosiveness

A study with Natal Technical showed that it is considered non-corrosive by DOT criteria when applied to the intact skin of albino rabbits.

12. ECOLOGICAL INFORMATION

General

This product is toxic to fish, birds, and other adds life. Keep out of any body of water. Do not contaminate water when disposing of equipment wash water or wastes

13. DISPOSAL CONSIDERTIONS

Waste Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or reinstate is a violation of Federal law. If these wastes cannot be disposed by use according to label instructions, contact your nearest State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.
Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Contact your nearest State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

14.TRANSPORT INFORMATION

UN Number 3018

Class 6.1

Packing Group III

15.REGULATORY INFORMATION

None

16.OTHER INFORMATION

None.

DISCLAIMER

All reasonable care has been exercised in processing your request for information on the chemical listed in this Material Safety Data Sheet. No warranty is made, either expressed or implied and Perisseuma Projects does not hold itself liable for any injury, illness, loss or misinterpretation arising from the use of this data. CHEMET WETS & FLOWS P.LTD makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

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