ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.
Pesticide Storage: Store below 122 °F (50 °C) and keep container tightly closed when not in use. Protect product from exposure to light and moisture.
Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

DISCLAIMER
Seller (whether manufacturer, distributor, or other) makes no warranty express or implied, including the implied warranty of merchantability, regarding this product except the composition as set forth in the ingredient statement herein, and shall not be liable for special or consequential damages, the exclusive remedy being the replacement of the product. Buyer or user assumes all risk of possession, handling or use of this material when such use and/or handling is contrary to label instructions.

EPA Reg. No. 39967-11-67071
EPA Est. No. 67071-DEU-001
Manufactured for: Thor GmbH
U.S. Office: Thor Specialties, Inc.
50 Waterview Drive; Shelton, CT 06484
Tel. (203) 516-6880

ACTICIDE® OPP

FOR THE PRESERVATION OF GLUES AND ADHESIVES,
THICKENERS (STARCH, CELLULOSE, GUAR, ETC.), LEATHER,
PAPER, TEXTILES, DYES, TEMPORARY SAPSTAIN CONTROL,
METALWORKING FLUIDS, INDUSTRIAL LUBRICANTS,
AIR FILTER OILS, STARCHES, CLAY SLURRIES, SLURRIES,
PRINTING INKs, GRAPHITE, HARD SURFACE TREATMENT
PRODUCTS (POLISHES, WAXES AND CERAMIC GLAZES), AND
POLYMER EMULSIONS (COATINGS, PVA SYSTEMS AND
RUBBER) *Not registered for this use in California.

ACTIVE INGREDIENT: O-Phenylphenol .................... 99.9%
INERT INGREDIENTS: ................................................. 0.1%
TOTAL: ................................................................. 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

HARMFUL DUST
FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IN CASE OF EMERGENCY, CALL:
CHEMTREC 800-424-9300

Precautionary Statements:
Hazards to Humans and Domestic Animals

DANGER: Do not breathe dust. Avoid contact with eyes, skin, and clothing of either dry material or its solution. Harmful and can be fatal if swallowed or inhaled.

PERSONAL PROTECTIVE EQUIPMENT
Applicators and other handlers must wear:
- Coveralls over long-sleeved shirt and long pants
- Socks and chemical resistant footwear
- Goggles or face shields
- Chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, viton).

For mixing/loading wear a chemical-resistant apron.

FOR THE PRESERVATION OF GLUES AND ADHESIVES, LEATHER, PAPER, TEXTILES, DYES, TEMPORARY SAPSTAIN CONTROL, THICKENERS (STARCH, CELLULOSE, GUAR, ETC.), LEATHER, PAPER, METALWORKING FLUIDS, INDUSTRIAL LUBRICANTS, AIR FILTER OILS, SLURRIES, PRINTING INKS, GRAPHITE, HARD SURFACE TREATMENT PRODUCTS (POLISHES, WAXES AND CERAMIC GLAZES), AND POLYMER EMULSIONS (COATINGS, PVA SYSTEMS AND RUBBER) *Not registered for this use in California.

USER SAFETY RECOMMENDATIONS
Users must wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly.

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Detailed directions for use can be found in the accompanying technical brochure entitled, “ACTICIDE® OPP Directions for Use”. Obtain and read this information before undertaking the use of this product in order to avoid process mistakes.

<table>
<thead>
<tr>
<th>Batch:</th>
<th>Mfg Date:</th>
<th>Net Contents (pounds):</th>
</tr>
</thead>
</table>
Product Information

ACTICIDE® OPP

EPA Registration Number 39967-11-67071
CAS Number 90-43-7
I. Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

The following guidance is given as an approximation for each use pattern, but field testing is recommended to achieve optimum effectiveness.

Glues and Adhesives

ACTICIDE® OPP can be dissolved in suitable solvent systems such as ethanol or 1,2-propanediol, or and alkaline homogeneous concentrate can be prepared and added to the substrate for the effective preservation of glues and adhesives. ACTICIDE® OPP can be directly mixed until homogeneous into dry glues before they are concentrated.

Recommended Dosages:

<table>
<thead>
<tr>
<th>Glue Type</th>
<th>Dosage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone Glues</td>
<td>0.10 - 0.15%</td>
</tr>
<tr>
<td>Skin Glues</td>
<td>0.15 - 0.40%</td>
</tr>
<tr>
<td>Leather Glues</td>
<td>0.15 - 0.40%</td>
</tr>
<tr>
<td>Fish Glues</td>
<td>0.15 - 0.40%</td>
</tr>
<tr>
<td>Casein-Containing Adhesives</td>
<td>0.20 - 0.40%</td>
</tr>
<tr>
<td>Gelatin-Based Glues</td>
<td>0.15 - 0.30%</td>
</tr>
<tr>
<td>Albumin-Containing Glues</td>
<td>0.20 - 0.40%</td>
</tr>
<tr>
<td>Starch-Based Glues (Liquid)</td>
<td>0.10 - 0.25%</td>
</tr>
<tr>
<td>Starch-Based Glues (Solid)</td>
<td>0.15 - 1.00%</td>
</tr>
<tr>
<td>Polymer Dispersion-Based Adhesives</td>
<td>0.10 - 0.30%</td>
</tr>
<tr>
<td>Dextrin-Based Adhesives</td>
<td>0.10 - 0.30%</td>
</tr>
<tr>
<td>Cellulose-Based Adhesives</td>
<td>0.10 - 0.30%</td>
</tr>
<tr>
<td>Plant Glues</td>
<td>0.10 - 0.25%</td>
</tr>
</tbody>
</table>

Stains and Paints

ACTICIDE® OPP is generally incorporated directly into pigments and fillers, but it can also be dissolved in a suitable solvent or added directly to the pre-heated binder system. For best results, the preservative should be homogeneously incorporated into stain or paint. Discoloration may occur, and should be evaluated.

Recommended Dosages:

<table>
<thead>
<tr>
<th>System</th>
<th>Dosage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latex-Based Systems</td>
<td>0.15 – 0.25%</td>
</tr>
<tr>
<td>Casein-Systems</td>
<td>0.20 – 0.40%</td>
</tr>
<tr>
<td>Oil-Containing Systems (Not for use in California)</td>
<td>0.25 – 0.50%</td>
</tr>
<tr>
<td>Alkyd Resin-Based Systems (Not for use in California)</td>
<td>0.25 – 0.50%</td>
</tr>
<tr>
<td>Synthetic Resin Dispersions (Not for use in California)</td>
<td>0.10 – 0.25%</td>
</tr>
</tbody>
</table>
Leather

ACTICIDE OPP may be dissolved in five times the amount of alcohol and then stirred into pickle solutions. In the case of chrome leather, an effective protection against mold attack may be obtained without additional labor by stirring ACTICIDE OPP together with soda into the basifying solution, since ACTICIDE OPP dissolves freely in the alkaline solution.

The oil-soluble ACTICIDE OPP can also be dissolved in the fat liquor and applied in the drum simultaneously. Finished vegetable-tanned leathers and chrome leathers may also be protected against mold attack by a treatment on both sides of the material with a 0.2 - 0.4% solution of ACTICIDE OPP.

Recommended Dosages:

- **Pickle solution and pickle hides** (Not for use in California) ......................... 0.15 – 0.25%
- **Chrome leather (calculated on pelt weight)**........................................... 0.10 – 0.25%
- **Leather pasting adhesives** (Not for use in California).............................. 0.05 – 0.10%
- **Leather pigment finishes** (Not for use in California).............................. 0.20 – 0.40%

Textiles

ACTICIDE OPP should be dissolved in suitable solvents such as ethanol, 1,2-propanediol, mineral spirits, or paraffins or can be converted to a water dilutable alkaline concentrate and applied directly to the textile normally by dipping or spraying. The preservative is affixed to the fiber with a suitable acid like acetic acid. For the preservation of auxiliaries, ACTICIDE OPP is diluted in solvents as mentioned above or is homogeneously distributed with the aid of alkaline solutions or emulsion concentrates. Print thickeners (Not registered for use in California) are preserved by adding ACTICIDE OPP directly to the emulsion or homogeneously metered directly into the dried product. Milling may be necessary in order to obtain consistent particulate sizes.

Recommended Dosages:

- **Awnings and Tarpaulins** ........................................................................ 0.50 – 5.0%
- **Geotextiles** .......................................................................................... 0.50 – 5.0%
- **Shower Curtains** ................................................................................... 0.50 – 2.0%
- **Jute, Sisal** ............................................................................................. 0.50 – 2.5%
- **Felts** ..................................................................................................... 0.50 – 2.5%
- ** Carpets** .................................................................................................. 0.50 – 2.0%
- **Upholstery** ............................................................................................ 0.50 – 2.0%
- **Cotton Production** ............................................................................... 0.50 – 1.5%
- **Wool Production** ................................................................................... 0.50 – 1.5%
- **Fire Hoses** ............................................................................................ 1.0 – 3.0%
- **Auxiliaries** (Sizing Agents, Finishing Agents, Spinning Preparations, Wetting Agents) 0.05 – 0.25%
Temporary Sapstain Control for Fresh Cut Lumber and Other Lumber

ACTICIDE OPP is converted to alkaline liquid and water dilutable formulations by adding sodium hydroxide or other bases or by preparing emulsion concentrates of ACTICIDE OPP. Auxiliaries may also be added. For the temporary protection of freshly sawn lumber against staining and molding, ACTICIDE OPP solutions as prepared above are applied to freshly sawn lumber by either dipping or spraying.

Recommended Dosages:

Fresh Cut Lumber ................................................................................... 1.0 – 4.0%
Fruit and Vegetable Containers (Not for use in California).......................... 1.0 – 3.0%
Pallets (Not for use in California).............................................................. 1.0 – 3.0%
Construction Woods (Not for use in California)...................................... 1.0 – 4.0 %

Dyes, Pigments and Filler Suspensions

ACTICIDE OPP should be evenly mixed with dispersing agents for processes where the temperature does not exceed 100°C. For all other processes, ACTICIDE OPP is metered directly into the material to be preserved during the cooling step after the temperature falls below 50°C and homogeneously distributed by stirring.

Recommended Dosages:

Clay Slurries ............................................................................................ 0.05 – 0.20%
Kaolin Slurries ........................................................................................ 0.05 – 0.20%
Calcium Carbonate Slurries .................................................................... 0.05 – 0.20%
Iron Oxide Pigment Slurries ................................................................... 0.05 – 0.20%
Carbon Black Pigment Slurries ............................................................... 0.05 – 0.20%
Titanium Dioxide Pigment Slurries.......................................................... 0.05 – 0.20 %
Organic Dyes and Pigment Slurries ....................................................... 0.05 – 0.20%
Starch Slurries ......................................................................................... 0.05 – 0.30%
Other Filler Suspensions.......................................................................... 0.05 – 0.30%

Polymer Dispersions and Emulsions*

* Not registered for this use in California

ACTICIDE OPP is added immediately after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures should be avoided. For homogeneous distribution, ACTICIDE OPP should be dissolved in suitable solvents such as ethanol, 1,2-propanediol, water dilutable alkaline solutions then added to emulsion concentrates or polymer dispersions.

Recommended Dosages:

Acrylic Systems (Not for use in California).............................................. 0.05 – 0.30%
Polyvinyl Acetate (PVA) Systems (Not for use in California)................. 0.05 – 0.30%
Viny/Acrylic-Based Systems (Not for use in California).......................... 0.05 – 0.30%
Styrene Butadiene Systems (Not for use in California)......................... 0.05 – 0.30%
Polyester-Based Systems (Not for use in California).............................. 0.05 – 0.30%
Polyurethane-Based Systems (Not for use in California)...................... 0.05 – 0.30%
Other Polymer Dispersions (Not for use in California)......................... 0.05 – 0.30%
Lubricoolants and Mineral Oil Based Products

ACTICIDE OPP is dissolved in the necessary amount of mineral oil, auxiliary (for example dispersing agent), solvents such as Ethanol, Glycols or water dilutable alkaline concentrates, and added to form a homogeneous mixture in the substrates (metalworking fluids, etc.,) by stirring.

Recommended Dosages:

Mineral Oil-Based Products
Cooling Fluids – Concentrate .......................................................... 1.0 – 5.00%
Ready for Use ................................................................................ 0.05 – 0.25%
Boring and Cutting Oils ................................................................. 0.05 – 0.20%
Fuel Oils (Not for use in California) ................................................ 0.02 – 0.15%
Hydraulic Oils ................................................................................ 0.05 – 0.25%

Non-Mineral Oil-Based Products
Cutting Oils ..................................................................................... 0.05 – 0.30%
Cooling Fluids .................................................................................. 0.05 – 0.30%

Other Applications
Recommended Dosages:

Concrete and Masonry Additives .................................................... 0.10 – 0.30%
Biopolymers (e.g. Xanthan) (Not for use in California) ................. 0.05 – 0.20%
Fire Extinguishing Medium ............................................................... 0.10 – 0.30%
Photographic Gelatins (Not for use in California) ......................... 0.05 – 0.25%
Tints (Not for use in California) ....................................................... 0.05 – 0.20%
Cleaning Solutions (Not for use in California) ......................... 0.05 – 0.40%
Wax Emulsions ........................................................................... 0.05 – 0.40%
Plasters ......................................................................................... 0.10 – 0.50%
Chemical Cleaning Solutions (Not for use in California) .......... 0.02 – 0.15%
Concrete ....................................................................................... 0.10 – 0.50%
Caulking Materials (Not for use in California) ......................... 0.10 – 0.50%
Rubber Systems (Not for use in California) ............................. 0.20 – 1.00%
Ceramic Glazes (Not for use in California) ................................. 0.10 – 0.50%
Polishes ......................................................................................... 0.05 – 0.20%
Paper Auxiliaries ....................................................................... 0.05 – 0.30%
Paper Slurries ............................................................................. 0.07 – 0.10%
Grouts and Mortars (Not for use in California) ..................... 0.02 – 0.20%

Manufactured for: Thor GmbH
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