ACTICIDE® BW20

ACTIVE INGREDIENTS:
1,2-Dibromo-3-chloropropane  20.0%

INERT INGREDIENTS:
80.0%

TOTAL:
100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO

See side panel for additional precautionary statements.

FIRST AID

In Eye:
- 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.

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

Ingestion:
- Take 2-3 glasses of milk or water. Rinse with water for at least 15 minutes.
- Call a poison control center or doctor for treatment.

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 the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Note to physician: Premature miscarriage may be associated with the use of gas tratments.

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.

If on 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.

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

For Transportation / Spill Emergency: Call Chemtrec at 1-800-424-9300

EPA Reg. No. 67071-123

EPA Est. No. 67071-D00-001

Manufactured By/For: Thor GmbH
D-67436 Speyer, Germany

U.S. Office: Thor specialties, Inc.
50 Waterway Drive, Shelton, CT 06484 USA
Tel: (203) 516-6980

Precautionary Statements:
Hazards to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Be sure to wash exposed skin and clothing if contact occurs. May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if swallowed. Harmful if absorbed through the skin. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Wear goggles or face shield, a respiratory with organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number TC-14C), or a NIOSH approved respirator with a organic vapor (OPV) cartridge or canister with any R, P, or N95 prefilter, long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves made of any waterproof materials.

USER SAFETY RECOMMENDATIONS

Follow manufacturer's instructions for cleaning/maintaining PPE. For no such instructions for washable suits, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Use should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

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

Industrial microbicidal for use in aqueous compositions such as oil in water emulsions, latexes, paints, adhesives, paper coating compositions, building materials, "aqueous" pigments and mineral stumets, "alkaloid" pesticide formulations, leather processing, for the preservation of fresh animal hides and skins, "stine" control, "oil" recovery systems, and for use in liquid household consumer, industrial, janitorial products. READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

* Not approved for these uses in the State of California

UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-benzisothiazol-3(2H)-one), 9, PG-III

Batch: Mfg Date: Net Contents (pounds):
**ACTICIDE® BW20 INFORMA**

**TION SHEET**

THIS ACTICIDE® BW20 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® BW20

**DIRECTIONS FOR USE**

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

ACTICIDE® BW20 is an effective preservative in most aqueous compositions. Typical applications and suggested range of use concentrations based on total weight of product are as follows:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>FORMULATION</th>
<th>CONCENTRATION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIL IN WATER EMULSIONS</td>
<td>Spin-finish solutions for use in textile industry and photographic emulsions.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td></td>
<td>Cutting/rolling oils. Soluble oils (metal and engineering industries). We suggest that the addition to metal-working fluid concentrates of ACTICIDE® BW20 should be limited to 1.5% maximum. This will give a maximum recommended use level of 0.15% ACTICIDE® BW20 in a 10:1 dilution of the concentrate and reduce the possibility of skin sensitization.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>LATICES</td>
<td>Polymer latices based on acrylates, PVA, butadiene and styrene for various applications. Synthetic/rubber latices.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>EMULSION PAINTS</td>
<td>As an in-container preservative.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>ADHESIVES</td>
<td>Animal glues, vegetable glues, carboxymethylcellulose and derivatives, adhesives based on gelatin and latices.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>PAPER COATING COMPOSITIONS</td>
<td>Rosin dispersions, starch and casein based products, mineral slurries, polymers</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>PESTICIDE FORMULATIONS</td>
<td>For product preservation. For ultimate use-dilution protection. ACTICIDE® BW20 is exempt from tolerance under 40 CFR 180. Materials exempted from the requirements of a tolerance when used in accordance with good agricultural practices as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only. For use in pesticide products that are not applied to crops, ACTICIDE® BW20 should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.05 to 0.25% ACTICIDE® BW20.</td>
<td>0.05 – 0.25%</td>
<td>0.5 - 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td></td>
<td>*Effective for the in-can preservation of seed coating materials which includes, but is not limited to, colorants, dyes, and seed coatings. *Not approved for this use in the state of California</td>
<td>0.05 – 0.50%</td>
<td>0.5 - 5 LB / PER 1000 LB PRODUCT</td>
</tr>
</tbody>
</table>

**Information Sheet # 023-0 V004 – 13-August-2015**

**EPA Reg. No. 67671-23**

Manufactured By/For: Thor GmbH
D-67346 Speyer, Germany

U.S. Office: Thor Specialties, Inc.
50 Waterview Drive, Shelton,
CT 06484 USA
Tel. (203) 516-6980
# ACTICIDE® BW20
## INFORMATION SHEET

THIS ACTICIDE® BW20 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® BW20

**DIRECTIONS FOR USE**

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

<table>
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<tr>
<th>INKS</th>
<th>0.05 – 0.25%</th>
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<tbody>
<tr>
<td><em>Not approved for this use in the state of California</em></td>
<td>0.5 – 2.5 LB / PER 1000 LB PRODUCT</td>
</tr>
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</table>

**BUILDING MATERIALS**

<table>
<thead>
<tr>
<th>Including</th>
<th>0.08 – 0.25%</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>caulks</em></td>
<td>0.80 – 2.5 LB / PER 1000 LB PRODUCT</td>
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</table>

<table>
<thead>
<tr>
<th><em>sealants</em></th>
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</table>

<table>
<thead>
<tr>
<th><em>spackling</em></th>
<th></th>
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</thead>
</table>

| *wallboard compounds* | |

*Not approved for these uses in the state of California*

**CONCRETE ADMIXTURES**

<table>
<thead>
<tr>
<th>0.15 – 0.25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 – 2.5 LB PER 1000 LB CONCRETE ADMIXTURE</td>
</tr>
</tbody>
</table>

**MINERAL SLURRIES**

Including titanium dioxide, kaolin, calcium carbonate, calcium sulfate and magnesium silicate

<table>
<thead>
<tr>
<th>0.04 – 0.25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.4 – 2.5 LB / PER 1000 LB PRODUCT</td>
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</tbody>
</table>

**AQUEOUS PIGMENTS**

Including color pigments and colorants.

*Not approved for these uses in the state of California*

<table>
<thead>
<tr>
<th>0.04 – 0.25%</th>
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<td>0.4 – 2.5 LB / PER 1000 LB PRODUCT</td>
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</table>

**HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS- LIQUID**

For the control of bacteria and fungi in liquid soaps, liquid cleaners, liquid detergents, liquid laundry products, liquid dishwashing detergents, waxes, polishes, liquid fabric treatment/refresher products, liquid air fresheners/deodorizers, car care products, and other similar cleaners.

ACTICIDE® BW20 may also be used for the control of bacteria and fungi in package utility products including pre-moistened sponges and mops.

ACTICIDE® BW20 may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial residential and household uses cited above. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact.

ACTICIDE® BW20 microbicidal may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.05 - 0.20% ACTICIDE® BW20.
**ACTICIDE® BW20 INFORMATION SHEET**

**THIS ACTICIDE® BW20 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® BW20**

**DIRECTIONS FOR USE**

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

<table>
<thead>
<tr>
<th><strong>HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS-SOLID</strong></th>
<th>0.05 – 0.20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the control of bacteria and fungi in solid soaps, solid cleaners, solid detergents, solid laundry products, solid dishwashing detergents, waxes, polishes, solid fabric treatment/refresh products, solid air fresheners/deodorizers, car care products, and other similar cleaners.</td>
<td>0.5 – 2.0 / PER 1000 LB PRODUCT</td>
</tr>
<tr>
<td>ACTICIDE® BW20 microbicid may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.05 - 0.20% ACTICIDE® BW20.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>LEATHER PROCESSING SOLUTIONS</strong></th>
<th>0.025 – 0.20%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0.25 - 2.0 LB / PER 1000 LB PRODUCT</td>
</tr>
</tbody>
</table>

**PRESERVATION OF FRESH ANIMAL HIDES AND SKINS:**

To preserve the integrity of fresh animal hides and skins prior to or during processing, use 13 fluid ounces to 2.5 gallons (1.0 – 24 lb) of ACTICIDE® BW20 per 1000 pounds of hides or skins. Add the appropriate quantity of ACTICIDE® BW20 to the brine solution during the curing operation, or treat hides or skins with an appropriately diluted aqueous solution during other portions of the processing operation. The specific use rate and contact time needed to control microbial attack will depend upon the degree of decomposition of the hides or skins prior to treatment.

**SLIME CONTROL**

Shock Dosing: 70 to 260 grams (2 1/2 - 9 oz) of ACTICIDE® BW20 for each ton of paper produced per day should be added as a single daily shock dose, the actual quantity used depending on the severity of the slime problem. This addition may be made to any part of the stock preparation or backwater system.

Continuous addition: ACTICIDE® BW20 should be added continuously for either the single period of 8 hours during every 24 hours or for two separate periods of 4 hours during every 24 hours. ACTICIDE® BW20 should be metered at the rate of 195-230 grams (7-8.3 oz) for each ton of paper produced during the dosing period. This addition should be made to the recirculated backwater.

*Not approved for this use in the state of California*

**OIL RECOVERY SYSTEMS**

Drilling fluids, packer fluids, completion fluids (polysaccharide fluid loss control agents and thickeners including starch, guar, and xanthan gum) add 0.05% to 0.15% based on the fluid weight or 1.5% - 4.5% based on the dry polysaccharide weight.

Subsurface injection waters including polymer and micellar/polymer waterfloors (thickeners including xanthan gum and polyacrylamides): add 0.015% to 0.15% based on solution weight

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