

**Buckman LABORATORIES**

**BUSAN®1280**

LIQUID INDUSTRIAL MICROBICIDE  
EMULSIFIABLE CONCENTRATE

**READ THE LABEL BEFORE USING**

**REGISTRATION NO.: 26831**  
**PEST CONTROL PRODUCTS ACT**

GUARANTEE:

2-(thiocyanomethylthio) benzothiazole .....30% (by weight)

**DANGER**

**POISON                    CORROSIVE TO EYES AND SKIN**

**WARNING SKIN IRRITANT**  
**POTENTIAL SKIN SENSITIZER**

NET CONTENTS: Liters/Kilograms

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and wildlife. Do not apply directly to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. This product is toxic to domestic or farm animals.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

**Buckman Laboratories of Canada, Ltd.**  
351 Joseph-Carrier Street  
Vaudreuil-Dorion, Quebec J7V 5V5  
1-450-424-4404

**EMERGENCY TELEPHONE NUMBER:  
1-450-424-4404**

**PRECAUTIONS**

**DANGER KEEP OUT OF REACH OF CHILDREN**

Do not get in eyes, on skin or on clothing. Do not breathe spray mists. When handling the concentrate, wear full face protection with cartridge respirator and impermeable gloves, aprons and boots. Use only in well ventilated area. Do not wear contact lenses. Wash hands and face before eating, drinking, smoking and using the toilet. Change clothing daily. Wash contaminated clothing separately from household laundry. Clean contaminated equipment thoroughly prior to making welding or other repairs.

**FIRST AID**

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**Eye exposure:** 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 centre or doctor for treatment advice.

**Skin or clothing exposure:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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, preferably by mouth-to mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**Ingestion:** Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

**TOXICOLOGICAL INFORMATION:** Note to physician: Probable mucosal damage following ingestion may contraindicate gastric lavage.

**DISPOSAL:**

A) Semibulk Containers: Return to supplier in compliance with Transport of Dangerous Goods Act.

B) Non-Returnable Containers: 1. Triple or pressure-rinse the empty container. Add the rinsings to the treatment site.

2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the Provincial Regulatory Agency. Contact the manufacturer and the Provincial Regulatory Agency in case of a spill, and for clean-up of spills.

**STORAGE:** Store unused product in a well ventilated secure area at temperatures between 10EC and 30EC. Do not freeze.

**COMBUSTIBLE.** Do not use, pour, spill or store near heat or open flame.

**IN CASE OF FIRE:** Use dry chemicals, foam, waterfog or CO<sub>2</sub>. Cool closed container with water. Emits toxic vapours during combustion.

#### **DIRECTIONS FOR USE**

##### **1) PULP AND PAPER:**

This product is used to inhibit the growth of fungi in the pulp and paper manufacturing process as well as the finished product. Refer to Product Technical Bulletin for rates and restrictions.

**NOTE:** This Product is not to be used on the production of paper on paperboard that comes in contact with Food.

**2) WATER TREATMENT:** This product is used to control microorganisms in re-circulating cooling and process water systems. Refer to Product Technical Bulletin for rates and restrictions.

**3) OTHER APPLICATIONS:** This product is used to inhibit the growth of fungi that cause the degradation of chrome-tanned leather, caulking sealants, vinyl acetate wall-covering adhesives, cutting fluids, paints and wool protective coatings registered under the Pest Control Products Act. Refer to Product Technical Bulletin for rates and restrictions.

Date: 11/2001  
( (LABEL) )

**BUCKMAN LABORATORIES**

Products for the Pulp and Paper Industry

**BUSAN® 1280  
Water-based Microbicide**

**INDUSTRIAL**

**DANGER**

**POISON      CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

- **Controls fungal slime**
- **Inhibits growth of sulfate-reducing bacteria**
- **Imparts mold-resistance to paper and paperboard**

Busan 1280 is a microbicide for use in pulp and paper mill slime control. It is an emulsion in water that contains no hazardous solvents and is compatible with other Busan microbicides. It is particularly useful as a supplementary product where additional control of fungal slime is needed, and it is also effective against sulfate-reducing bacteria. Busan 1280 does not adversely affect brightness or cause dye shades to vary.

Busan 1280 is recommended for control of fungi that cause degradation of wet lap or sheet pulp, and mulch paper. It also provides mold resistance to coated and uncoated paper and paperboard.

**Benefits of Busan 1280 Treatment**

The active ingredient in Busan 1280 is the best product available for control of fungi. In addition, it is effective in inhibiting the growth of sulfate-reducing bacteria and thus controlling odors and corrosion caused by these organisms. Where fungi or sulfate-reducing bacteria cause problems, a treatment program including Busan 1280 can provide improved product quality, reduced downtime, extended life of equipment, and increased production.

Your Buckman representative will study your system, analyze microbiological problems, and recommend the treatment program that will best ensure maximum operating efficiency.

Treatment programs with Buckman specialty chemicals are backed by intensive technical service from our field representatives and our laboratory facilities. For more than 45 years, we have been solving problems for the pulp and paper industry.

### **Application**

For preservation of wet lap, sheet pulp, and molded pulp products, Busan 1280 is used at 0.25 to 2 kg per metric ton of oven-dry fiber. It is applied to the surfaces of the dewatered pulp by means of sprays or applicator rolls.

To control bacterial and fungal growth on paper and paperboard machines, Busan 1280 is added to the white water or stock at 0.05 to 0.25 kg per metric ton of dry paper or paperboard produced. To make mold-resistant paper or paperboard, Busan 1280 is used at 0.25 kg/1,000 sq m (0.74 to 1.47 kg/3,000 sq m) of surface. For coated paper or board, Busan 1280 is dispersed in water, surface-sizing solution, or the other solvent, and applied to the surface to be protected by means of an applicator roll.

Busan 1280 may be used for supplemental treatment of broke, which may be required to achieve the best slime control. Coated broke and broke that is stored in a chest for use over a period of time can be a major source of contamination in a paper machine system. For uncoated broke, the addition 0.1 to 0.2 kg per metric ton will usually be adequate. However, coated broke may require levels as high as 0.25 kg per metric ton if contamination is severe.

For the preservation of agricultural mulch paper, Busan 1280 is used at 0.75 to 2.5 kg per metric ton air-dry paper. It is applied to the surfaces of the mulch paper by tub-sizing methods or by means of sprays or applicator rolls before the paper is coated.

### **Typical Product Characteristics**

<b>GUARANTEE:</b>	2-(Thiocyanomethylthio)benzothiazole ... 30%
<b>Density @ 25EC</b>	1.11 g/ml
<b>Volume per kilogram</b>	900 ml

pH (100 ppm in water)	5-6
<b>REGISTRATION No. 26831 - PEST CONTROP PRODUCTS ACT</b>	

### **Packaging and Handling**

Busan 1280 is an emulsion packed in nonreturnable drums, returnable semi-bulk containers, and in bulk. Inventory control is important with emulsion products. Warehouse stocks should be rotated on a first-in, first-out basis to minimize storage time. If after an extended period of storage a clear fluid appears on the top of the emulsion, the product should be thoroughly mixed before use.

Containers of Busan 1280 should be protected from exposures to temperatures below freezing. Storage in a heated area is advised.

Suitable materials of construction for use with Busan 1280 include teflon, polyethylene (both low and high density), rigid polyvinylchloride, silicone rubber, polypropylene, and Van Leer epoxy liner 136.

Busan 1280 can be fed into the system directly from the shipping containers by use of chemical-metering pumps. It should be added to the system at points of vigorous agitation.

Improper handing of this product can be injurious to workers. Observe all safety precautions shown on the label.

**Buckman Laboratories of Canada, Ltd.**  
**351 Joseph-Carrier Street**  
**Vaudreuil-Dorion, Quebec**  
**J7V 5V5**

Technical Bulletin No.: SGF081501/Busan 1280ppe.CAN

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of the product as such, or in combination with other material. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.

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(( LABEL ))

## **BUCKMAN LABORATORIES**

Products for the Leather Industry

### **BUSAN® 1280 Fungicide for tanneries**

**INDUSTRIAL**

**DANGER**

**POISON            CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

- **Contains most effective leather fungicide**
- **Water-based product**
- **No hazardous solvents in formulation.**

Busan 1280 is an effective and economical microbicide for preventing fungal attack of skins and hides during tannery processing and subsequent storage. It is specifically recommended for use in chrome tanning to prevent leather damage and consequent losses caused by microorganisms. Busan 2180 is a water-based emulsion microbicide that contains no hazardous solvents. It is specially formulated to eliminate storage and application limitations occasionally associated with non-aqueous liquid products.

#### **Methods of Application**

Because of its moist conditions and acidic pH, chrome-tanned stock held "in the blue" readily molds and may become discolored. Severe mold growth at this stage will usually cause permanently discolored areas that influence subsequent finishing operations and reduce the value of the leather. Treatment with Busan 1280, however, will help eliminate mold

growth on chrome-tanned stock when used along with good sanitation procedures.

Busan 1280 should be applied as a dispersion in water. Satisfactory dispersions using (1) part Busan 1280 and three (3) parts water can be prepared with proper addition sequence and sufficient agitation. Busan 1280 should be added to the water as opposed to the water being added to the Busan 1280. Higher dilutions such as one (1) part Busan 1280 to 19 or more parts of water are preferred where such dilutions can be conveniently used in the tanning process. Dispersions of Busan 1280 in water will remain stable for only a short period of time. It is thus recommended that such dispersions be prepared immediately prior to their attention to the tanning process.

Busan 1280 is adsorbed on the hide and therefore dispersion of Busan 1280 in water must be added in a manner to ensure uniform distribution over the entire skin or hide. The preferred points of addition to the pickling liquor or chrome-tanning liquor. It is very important that the additions be made following neutralization of any residual lime or alkaline salts by the acid pickling liquor. Under no circumstances should Busan 1280 be added to solutions of hides when the pH is above 8.0. Under some circumstances it may be advantageous to make split additions of the Busan 1280 dispersion with approximately one-half added to the pickling liquor and the remainder to the tanning liquor.

An alternate addition procedure would be to add approximately one-half the required amount of Busan 1280 dispersion to the tanning drum or vat as the initial tanning liquor charge is made. The remainder of the dispersion can then be added directly to the drum or vat with vigorous mixing just after mid-point of the tanning cycles has been completed.

Suggested treatment rates are 0.25 to 2.0 kg of Busan 1280 per metric ton of white stock weight. Treatment rates will vary depending on factors such as relative fat content of the skins or hides, thickness or density of the stock, subsequent washing, neutralization, chemical fixing agents, and the degree of preservation required for specific storage conditions. The higher the fat content, where the hides are usually thick or dense, and where final post-tanning operations, such as washing, neutralizing, and chemical fixing would contribute to the extraction of Busan 1280 from the hides.



For treating hides cured with dry salt, Busan 1280 should be mixed with salt before it is applied to the hides. For treating tanned hides, Busan 1280 should be dispersed in water and added to the pickling solution or to the tanning liquor at the start of the tanning operation. For preservative of leather-finished pastes and fat liquors, Busan 1280 is added to the pastes at 0.10 to 0.25% by weight of treated pasted and mixed to ensure adequate dispersion.

When longer term preservation of splits of whole hides is required, it is suggested that a supplemental surface application of the Busan 1280 be made to all surfaces. This can be done by a vat or drum soak, or a roll/winder application procedure. The important factor is uniform distribution of the Busan 1280 dispersion onto the top and the bottom surfaces of each split.

The exact procedure of adding Busan 1280 and contact time needed to provide maximum protection of hides from microbial attack will vary from one tannery to another. The most effective program should be developed specifically for each location. Your Buckman representative will study your application, analyze microbiological problems, and recommend the treatment program that will best ensure maximum operating efficiency.

Treatment programs with Buckman specialty chemicals are backed by intensive technical service from our field representatives and our laboratory facilities. For more than 45 years, we have been solving problems for the leather industry.

**Typical Product Characteristics**

<b>GUARANTEE:</b>	2-(Thiocyanomethylthio)benzothiazole ... 30%
<b>Density @ 25EC</b>	1.11 g/ml
<b>Volume per kilogram</b>	900 ml
<b>pH (100 ppm in water)</b>	5-6
<b>REGISTRATION No. 26831 - PEST CONTROL PRODUCTS ACT</b>	

**Packaging and Handling**

Busan 1280 is an emulsion packed in nonreturnable drums, returnable semi-bulk containers, and in bulk. Inventory control is important with emulsion products. Warehouse stocks should be rotated on a first-in, first-out basis to minimize storage time. If after an extended period of storage a clear fluid appears on the top of the emulsion, the product should be thoroughly mixed before use.

Containers of Busan 1280 should be protected from exposures to temperatures below freezing. Storage in a heated area is advised.

Suitable materials of construction for use with Busan 1280 include teflon, polyethylene (both low and high density), rigid polyvinylchloride, silicone rubber, polypropylene, and Van Leer epoxy liner 136.

**Buckman Laboratories of Canada, Ltd.**  
**351 Joseph-Carrier Street**  
**Vaudreuil-Dorion, Quebec**  
**J7V 5V5**

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(( LABEL ))

## **BUCKMAN LABORATORIES**

Products for the Paint and Plastics Industry

**BUSAN® 1280**  
**Water-based Microbicide**

**INDUSTRIAL**

**DANGER**

**POISON            CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

- **Controls fungi and slime**
- **Water-based product**
- **No hazardous solvents**

Busan 1280 is a microbicide for use as a preservative for caulking-sealants and vinyl acetate wallcovering adhesives. Its addition to these products will inhibit the growth of fungi (mold, "mildew") that cause the discoloration, unsightly appearance, and degradation of these compounds, particularly when they are exposed to humid environments. Busan 1280 is especially recommended for the protection of caulking-sealants intended for the use around bathtubs, showers, bathroom tiles, and vinyl acetate adhesives used on fabrics and paper for covering walls.

Your Buckman representative will study your application, analyze microbiological problems, and recommend the treatment program that will best ensure maximum operating efficiency.

Treatment programs with Buckman specialty chemicals are backed by intensive technical service from our field representatives and our laboratory facility. For more than 45 years, we have been solving problems for the coatings industry.

**Application**

Busan 1280 can be dispensed directly from the shipping containers by use of chemical-metering pumps or suitable measuring containers. Sufficient mixing to ensure adequate dispersion of the biocide is required. Busan 1280 is used at levels between 0.5% and 5.0% based on the total weight of the formulation to inhibit fungal disfigurement and deterioration. For solvent-based coatings the Busan 1280 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added in the let down or added directly to the finished products. For water-thinned latex emulsion coatings, the Busan 1280 can be premixed with the wetting agent and added to the pigment slurry or simply added to the let down or finished product.

Since the optimum dosage rate will vary with the type of product to be protected, it is necessary to determine the optimum amount of Busan 1280 needed to preserve a particular caulking-sealant or adhesive. Technical assistance in making such tests will be provided upon request.

### Typical Product Characteristics

<b>GUARANTEE:</b>	2-(Thiocyanomethylthio)benzothiazole ... 30%
<b>Density @ 25EC</b>	1.11 g/ml
<b>Volume per kilogram</b>	900 ml
<b>pH (100 ppm in water)</b>	5-6
<b>REGISTRATION No. 26831 - PEST CONTROL PRODUCTS ACT</b>	

### Packaging and Handling

Busan 1280 is an emulsion packed in nonreturnable drums, returnable semi-bulk containers, and in bulk. Inventory control is important with emulsion products. Warehouse stocks should be rotated on a first-in, first-out basis to minimize storage time. If after an extended period of storage a clear fluid appears on the top of the emulsion, the product should be thoroughly mixed before use.

Containers of Busan 1280 should be protected from exposures to temperatures below freezing. Storage in a heated area is advised.

Suitable materials of construction for use with Busan 1280 include teflon, polyethylene (both low and high density), rigid polyvinylchloride, silicone rubber, polypropylene, and Van Leer epoxy liner 136.

Improper handling of this product can be injurious to workers. Observe all safety precautions shown on the label.

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351 Joseph-Carrier Street  
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J7V 5V5

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(( LABEL ))

**BUCKMAN LABORATORIES**

Products for the Water Treatment Industry

**BUSAN® 1280**  
**Broad Spectrum Microbicide**

**INDUSTRIAL**

**DANGER**

**POISON            CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

Busan1280 is a liquid microbicide concentrate for the control of microorganisms in industrial and commercial cooling water and process water systems. Because of its unique biocidal and physical characteristics, it is useful for controlling microbiological growth. Busan 1280 is a water-based emulsion microbicide that contains no hazardous solvents. It is specifically formulated to eliminate storage and application limitations occasionally associated with non-aqueous liquid products.

Busan 1280 does not cause foaming and thus can be added to systems in slug dosages at maximum use concentrations. Busan 1280 is oil soluble to some degree which provides the capacity of microbiological control in hydrophobic environments.

### **Application**

As a rule, it is recommended that prior to treatment of cooling water systems with Busan 1280, the systems be thoroughly cleaned to remove old algal growth, slime and other deposits. The system then should be drained, flushed, and refilled with fresh water and then treated regularly with Busan 1280.

For the control of microorganisms on cooling towers and other parts of commercial and industrial recirculating cooling systems, Busan 1280 is used at concentrations of 1.6 to 10.3 ppm (weight/weight) in the system. It is recommended that initially a slug dose of 5.1 to 30.8 ppm should be made, and this initial dosage should be repeated until control is evident. Subsequent additions of 1.6 to 10.3 pm should be made every 1 to 5 days or as needed. The required frequency of treatment depends on the relative amount of bleedoff and the severity of the microbiological fouling system. Slug additions of Busan 1280 should be made to the sump of water cooling towers.

Your Buckman representative will study your system, analyze microbiological problems, and recommend the treatment program that will best ensure maximum operating efficiency.

### **Typical Product Characteristics**

<b>GUARANTEE:</b>	2-(Thiocyanomethylthio)benzothiazole ... 30%
<b>Density @ 25EC</b>	1.11 g/ml
<b>Volume per kilogram</b>	900 ml
<b>pH (100 ppm in water)</b>	5-6
<b>REGISTRATION No. 26831 - PEST CONTROL PRODUCTS ACT</b>	

## **Packaging and Handling**

Busan 1280 is an emulsion packed in nonreturnable drums, returnable semi-bulk containers, and in bulk. Inventory control is important with emulsion products. Oldest inventory should be used first and in-plant storage of Busan 1280 kept to a minimum. After periods of extended storage, or if a clear fluid appears on the top of the emulsion, the product should be thoroughly mixed or agitated before using.

Improper handling of this product can be injurious to workers. Observe all safety precautions shown on the label.

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(( LABEL ))

**BUCKMAN LABORATORIES**

Products for the Metal Working Industry

**BUSAN® 1280**  
**Broad Spectrum Microbicide**

**INDUSTRIAL**

**DANGER**

**POISON      CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING**

- **Controls fungi and bacteria**
- **Compatible with water-soluble lubricants**
- **No hazardous solvents**

Busan 1280 is a water-based broad-spectrum microbicide that is effective against microorganisms which degrade fouling metal working fluids. The product is specifically recommended for preservation of water dilutions of soluble oils, semi-synthetic oils, and synthetic fluids. It is best applied as a tank side additive.



## Methods of Application

Busan 1280 is used to inhibit the bacterial and fungal degradation of water-based and water-soluble or emulsifiable cutting fluids and coolants used in metalworking operations. It should be added to the diluted cutting fluid at a rate that will provide 150 to 250 parts per million Busan 1280 (weight/weight) after final dilution with water. To prevent fungal growth on the inside of the diluted metalworking fluid storage tanks, higher concentrations of Busan 1280 are needed. For this application, it is recommended that Busan 1280 be added to the diluted fluid as it is prepared to provide a concentration of 1,000 and 1,250 parts per million.

Your Buckman representative will study your system, analyze microbiological problems, and recommend the treatment program that will best ensure maximum operating efficiency.

Treatment programs with Buckman specialty chemicals are backed by intensive technical service from our field representatives and our laboratory facilities. For more than 45 years, we have been solving problems for the metal working industry.

## Typical Product Characteristics

<b>GUARANTEE:</b>	2-(Thiocyanomethylthio)benzothiazole ... 30%
<b>Density @ 25°C</b>	1.11 g/ml
<b>Volume per kilogram</b>	900 ml
<b>pH (100 ppm in water)</b>	5-6
<b>REGISTRATION No. 26831 - PEST CONTROL PRODUCTS ACT</b>	

## Packaging and Handling

Busan 1280 is a liquid emulsion packed in nonreturnable drums and returnable semi-bulk containers. Improper handling of this product can be injurious to workers. Observe all safety precautions shown on the label.

Because Busan 1280 is a liquid emulsion, inventory control is important. Oldest inventory should be used first, and the in-

plant storage should be kept to a minimum. After prolonged periods of storage, or if a clear fluid appears on top of the emulsion, the product should be thoroughly mixed or agitated before use. Busan 1280 should be kept from freezing.

Busan 1280 can be dispensed from shipping containers by means of a chemical-metering pump or suitable measuring containers. To ensure complete dispersion, product should be added to the system at a point of vigorous agitation.

Suitable materials of construction for use with Busan 1280 include teflon, polyethylene (both low and high density), rigid polyvinylchloride, silicone rubber, polypropylene, and Van Leer epoxy liner 136.

Benefits obtained from the use of Busan 1280 for microorganism control in metalworking fluids include elimination of foul odours, longer fluid life and a lower part-rejection rate. Due to better fluid performance, you will also realize reduced production costs.

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**351 Joseph-Carrier Street**  
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