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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

AUG - 5 2013

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Mr. Levi Howell, Regulatory Affairs Specialist ICL-IP America, Inc. 95 MacCorkle Avenue, S.W. South Charleston, WV 25303

Subject: BIOBROM®AS EPA Registration Number: 8622-80 Application Date: May 03, 2013 Receipt Date: May 07, 2013

Dear Mr. Howell:

The following label amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA) 3(c) 7(A), as amended, is **acceptable**.

Proposed Amendment

Added the following Administrative information in the Header and in the Footer:

EPA registration number

Product Name Master label Version Number

Date Of Arrival: mmddyyyy

Pages: No of No

Aligned the Active ingredient, Other Ingredients and Total Results within the Ingredient Statement.

Change Inert Ingredients to Other Ingredients

Re-formatted the First Aid table;

Rearranged the First Aid table to match the flow of the Precautionary Statements Replaced "1-304-746-3000 with "1-800-420-9236"

Edited the paragraph following the Precautionary Statements to incorporate the following: <u>"Avoid breathing vapor. Wear protective face shield or safety glasses, protective clothing, and chemical-resistant gloves."</u>

"...drinking, chewing gum, using..."

"Remove and wash contaminated ... "

Revised the Environmental Hazards section to incorporate the following options:

"For end-use products package in containers with sizes less than 50 pounds."

"For end-use products package in containers with sizes greater than or equal to 50 pounds." Revised section title: <u>Chemical and Physical</u> Hazards to read, <u>Physical or Chemical</u> Hazards. Moved the Directions For Use between Physical or Chemical Hazards and Storage And Disposal sections;

Change "BIOBROM AS" to read "this product" where appropriate.

Revised the Storage And Disposal section in accordance with PR Notice 2007-4. Revised the Warranty section: "...but to the extent consistent with applicable law, neither..." Change <u>Manufactured</u> for to <u>Produced</u> for. Updated the contact information with phone numbers for Domestic and International labels. After the EPA registration and establishment information:

Added [Material][Label] No.____

Revised NET CONTENTS units to [lbs] [kg] [gal.][fl.oz.].

Added [Batch] [Lot] No._____

Other minor formatting changes.

Minor grammatical and spelling corrections.

General Comments

A stamped accepted label is enclosed for your records. This labeling supersedes all previous labeling. The next printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed label before selling or distributing the product bearing the revised labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling, or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and it's implementing regulation at 40 CFR 152.3.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at <u>campbell.jacqueline@epa.gov</u> or Lorena Rivas by telephone at (703) 305-5027 or by email at <u>rivas.lorena@epa.gov</u>. When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,

Enclosure: Stamped label

Jacqueline Calhpbell Product Manager (34) Regulatory Management Branch II Antimicrobials Division (7510P) л

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5-2013

Under the Federal Insectional Journaucide, and

Rodenticide, Act as americae, for the pesticide, registered under EPA Reg. No. 3672-80

{All text in brackets [xxx] is optional and may or may not be intended on a final label.} {All text in braces {xxx} is administrative and will not appear on a final label.}

BIOBROM[®] AS

DBNPA

[A MICROBIOCIDAL [BACTERICIDE], [FUNGICIDE], [ALGAECIDE], [AND] [SLIMICIDE] [USED IN TREATING] [RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS], [PULP & PAPER MILLS], [BREWERY PASTEURIZER WATER], [METALWORKING CUTTING FLUIDS], [NON-POTABLE REVERSE OSMOSIS SYSTEMS], [ENHANCED OIL RECOVERY SYSTEMS], [AIR-WASHER SYSTEMS], [INDUSTRIAL PRESERVATION APPLICATIONS] [AND] [PUBLICLY-OWNED TREATMENT WORKS]].

ACTIVE INGREDIENT:

2,2-Dibromo-3-nitrilopropionamide	20%
OTHER INGREDIENTS	<u>80%</u>
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN DANGER

FIRST AID	
lf 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.
lf 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person:
lf 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.
lf 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.
Have the YOU MAY	product container or label with you when calling a poison control center, doctor or when going for treatment. ALSO CONTACT [1-800-420-9236] FOR EMERGENCY MEDICAL TREATMENT INFORMATION.
	NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage. ۲۰۰۵

See [back] [side] panel[s] for additional precautionary statements [and first aid].

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. EYE CONTACT MAY CAUSE LOSS OF VISION. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS.

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Do not get in eyes, on skin or on clothing. Avoid breathing vapor. Wear protective face shield or safety glasses, protective clothing, and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTION EQUIPMENT (PPE):

-Applicators and other handlers must wear:

-Coveralls worn over long-sleeved shirt and long pants.

- -Chemical-resistant footwear plus socks.
- -Goggles or face shield.

-Chemical-resistant gloves(such as barrier laminate, butyl rubber, neoprene rubber, nitrile rubber, polyvinyl chloride (PVC and viton).

-For mixing/loading: Wear a chemical-resistant apron.

-For cleaning equipment: Wear a chemical-resistant apron.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Requirements

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 personal protective equipment immediately after handling this product. Wash outside of gloves before removing. Wash thoroughly as soon as possible.

General Precautions and Restrictions

Do not apply this product in a way that will contact workers or other persons.

ENVIRONMENTAL HAZARDS

{For end-use products packaged in containers with sizes less than 50 pounds.}

[This product is toxic to fish and aquatic organisms.]

[For end-use products packaged in containers with sizes greater than or equal to 50 pounds.] [This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.]

PHYSICAL OR CHEMICAL HAZARDS

keaction with strong reducing agents may be explosive. Avoid misting.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

INDUSTRIAL RECIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS

NOTE: Add this product separately to the system. Do not mix it with other additives so as to avoid decomposition of this product due to the high pH of many additive formulations. Add this product to the basin (or any other point of uniform mixing). Addition must be made via a metering pump; it may be continuous or intermittent, depending on the severity of the contamination when treatment is begun and the in-system retention time. Optimum performance with this product is achieved by continuous or intermittent treatment. If "shock" treatment is used, the blowdown must be discontinued for 24-48 hours. FOR CONTROL OF BACTERIA

Add 0.00095-0.0095 gallons of this product/ 1.000 gal. of water in the system depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal. of this product/1.000 gal. of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0024-0.0095 gal, of this product/1.000 gal. of water in the system every 4 days, or as needed, to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.0048-0.0095 gal, of this product / 1.000 gal, of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.00095-0.0048 gal. of this product / 1,000 gal. of water in the system lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 gallons of this product/1.000 gal. of water in the system, depending on the severity of contamination.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal. of this product /1.000 gal. of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.029-0.095 gal. of this product /1.000 gal. of water in the system daily, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.048-0.095 gal. of this product/1.000 gal. of water in the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.029-0.095 gal. of this product / 1,000 gal. of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.]

IPULP AND PAPER MILL SYSTEMS

NOTE: Add this product separately to the system. Do not mix it with other additives, so as to avoid decomposition of this product due to the high pH of many additive formulations. For the control of slimeforming bacterial, fungal, and yeast growth in pulp, paper, and paperboard mills, add this product at levels of 0.15-0.50 lbs./ton (dry) of pulp or paper produced. Addition can be continuous or intermittent. depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of this product in the mass of fiber and water. such as the beaters, Jordan inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks. Heavily fouled systems must be first boiled out then treated with 0.15-0.35 lbs. of this product / ton (drv) of paper or pulp as necessary for control. Moderately fouled systems must be treated continuously with 0.35-0.50 lbs. of this product / ton (dry) of paper or pulp until the slime accumulation is controlled. Subsequent rates can then be reduced to 0.15-0.35 lbs. of this product / ton (dry) of paper on a continuous or intermittent basis as needed for control. Dislodged slime may cause breaks in the paper. and a cleanup of the paper machine may be advisable. CCLIC

Slightly fouled systems must be treated continuously with 0.15-0.35 lbs. of this product/ ton (dry) of paper or pulp, until the slime is controlled, then added on an intermittent basis to maintain control.]

[NON·POTABLE REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi and algae slimes in non-potable reverse osmosis systems and peripheral equipment, add this product to the system inlet water or before any other contamination are cahead of the reverse osmosis unit. This product may be added with a metering pump on an intermittent or continuous basis depending on the severity of contamination and the guidelines specified by the membrane manufacturer for this product.

For continuous use, add this product at the rate of 0.01 to 1.0 lbs. (1 to 120 ppm) per 1,000 gal. of feedwater. For cleaning off-line systems, add this product at 50 to 170 ppm per 1,000 gallons of feedwater to the off-line cleaning feed tank and re-circulate for 30 minutes to 3 hours. Once off-line

treatment is completed, rinsing with feedwater must continue until conductivity values in the permeate are at or below values before treatment with this product. Badly fouled systems must be cleaned before treatment is begun.

[Note:] For industrial systems that cannot tolerate this product's residuals, a slug or intermittent feed process must be employed where the permeate and concentrate streams are directed to waste during the addition of this product and for 30 minutes to 1 hour following this product's addition.

FOR CONTROL OF BACTERIA

Initial Dose: When the system is noticeably fouled, add this product at the rate of 0.05 to 1.0 lbs. (6 to 12 ppm) per 1,000 gal. of feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

Subsequent Dose: When microbial control is achieved, add this product at the rate of 0.025 to 0.1 lbs. (3 to 12 ppm) per 1,000 gal. of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane manufacturer.

FOR CONTROL OF FUNGI AND ALGAE

Initial Dose: When the system is noticeably fouled, add this product at the rate of 0.5 to 1.0 lbs. (60 to 120 ppm) per 1,000 gal. of feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer. **Subsequent Dose:** When microbial control is achieved, add this product at rate of 0.3 to 1.0 lbs. (36 to 120 ppm) per 1,000 gal. of feedwater as needed to maintain control or as specified by guidelines recommended by the membrane by guidelines recommended by the membrane manufacturer.

[METALWORKING FLUIDS CONTAINING WATER

This product is effective in metalworking fluid concentrates which have been diluted in water at ratios of 1:100 to 1:4. For controlling (or inhibiting) the growth of bacteria, fungi and yeasts that may deteriorate metalworking fluids containing water, add this product to the fluid in the collection tank. Additions must be made with a metering pump.

Initial or Slug Dose: When the system is noticeably fouled, add this product at the rate of 0.25 gal. (2.65 lbs) per 1,000 gal. of metalworking fluid in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.1 to 0.2 gal. (1.06 to 2.12 lbs.) per 1,000 gal. of metalworking fluid per day, or as needed to maintain control. Additions of this product can be made continuously or intermittently. Slug the system as required.]

[BREWERY PASTEURIZER WATER

For controlling (or inhibiting) the growth of bacteria, fungi and yeasts in brewery pasteurizing water systems, add this product at a point in the system to insure uniform mixing.

Initial or Slug Dose: When the system is noticeably fouled, add this product at the rate of 0.25 gal. (2.65 lbs.) per 1,000 gal. of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.1 to 0.2 gal. (1.06 to 2.12 lbs.) per 1,000 gal. of water per day, or as needed, to maintain control. Additions of this product can be made continuously or intermittently. Slug the system as required. Badly fouled systems must be cleaned before treatment is begun.]

ENHANCED OIL RECOVERY SYSTEMS

NOTE: Add/this product separately to the system. Do not mix it with other additives so as to avoid decomposition of this product due to the high pH of many additive formulations. Addition of this product may be made at the free water knockouts, before or after the injection pumps and injection well headers. For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts, and fungi in oil field water, colymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80 ppm of this product (0.2-6/4 gallons of this product per 2,400 barrels of water) depending on the severity of contamination. Additions must be made with a metering pump either continuously or intermittently.

When the system is noticeably fouled, add 10-80 ppm of this product (0.8-6.4 gal. of this product per 2,400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm of this product (0.1-1.2 gal. of this product per 2,400 barrels of water) continuously, or as needed, to maintain control.

INTERMITIENT OR SLUG METHOD

When the system is noticeably fouled or to maintain control of the system, add 10-80 ppm of this product (0.8-6.4 gal. of this product per 2,400 barrels of water) intermittently for 4-8 hours per day and from 1-4 times per week, or as needed, depending on the severity of contamination.

NOTE: For control of bacteria, yeast, and fungi in aqueous solutions of biopolymer used in flooding operations, add 5-80 ppm of this product (1.2-6.4 gal. of this product per 2,400 barrels of water). Additions of this product must be made with a metering pump immediately after preparation of the aqueous biopolymer solution to reduce loss of viscosity.]

[AIR-WASHER SYSTEMS

For use only in industrial air washer systems that maintain effective mist eliminating components. Add 0.0015-0.095 gallons of this product /1.000 gal. of water in the system, depending on the severity of contamination, to control slime-forming bacteria and fungi in industrial air washing systems.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal. of this product/1,000 gal. of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0015-0.047 gal. of this product/1.000 gal. of water in the system every 2 days, or as needed, to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, add 0.003-0.095 gal. of this product/1,000 gal. of water in the system.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0015-0.047 gal. of this product/1,000 gal. of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.]

[INDUSTRIAL PRESERVATION APPLICATIONS

This product may be used to reduce microbiological contamination in raw materials and/or products such as: aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions, sizing, caulk, process water, along with specialty industrial products including: inks, polishes, waxes, detergents, and cleansers.

TO REDUCE MICROBIOLOGICAL CONTAMINATION

Add this product to the material or product at a concentration of 25 to 2,000 ppm by weight. This concentration is equivalent to 2.8 to 224.0 fluid ounces of this product per 1,000 gallons or 21.4 to 1,712.0 milliliters of this product per 1,000 liters. The required concentration will depend on the material being treated and the level of contamination present.]

IPUBLICLY-OWNED TREATMENT WORKS TO CONTROL COLIFORM AND OTHER BACTERIA

Add this product at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Addition must be CONTINUOUS and must be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add this product to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

TO USE AS A CO-TREATMENT WITH CHLORINE

Add 0.4 - 1.5 ppm of this product by weight of water treated. Chlorination must result in a minimum e^{-k} detectable residual (i.e., greater than zero but less than the NPDES permit level). Addition injust be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. This product must be added at a location where a contact time of minutes or longer will be provided before reaching the outfall.] ະຼັ

IOILFIELD AND PETROCHEMICAL SYSTEMS

This product may be used either in slug treatment or in continuous application. Dosages may vary from as much as 200 ppm of this product in slug application to 10 to 50 ppm of this product in continuous treatment (1/4 pint of this product per 1,000 gallons of water equals approximately 30 ppm). A typical slug treatment is to add 1 pint of this product per 1,000 gallons at intervals as needed to prevent. growth of microbial slime. Badly fouled systems may be slug treated to establish control, followed by continuous treatment to maintain control.]

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE

Store in a dark, cool, dry, well-ventilated area, not above 104°F (40°C), in well-closed original containers, away from energy sources, combustible organic materials, oxidizers, moisture, and reducing agents. **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

{For nonrefillable containers with capacities less than or equal to 5 gallons.}

[Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank and is proceeded. Drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.]

{For nonrefillable containers with capacities greater than 5 gallons.}

[Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

SPILLS

When handling or dealing with spills, use goggles with side shields, or face shield; wear protective clothing, including chemical-resistant gloves and boots. Use a respirator if misting occurs. Cover wet spills with 10% sodium bicarbonate solution, water and then an inert absorbent before sweeping up and disposing as described for pesticide disposal. If contents are contaminated or decomposing. Isolate unsealed container in the open or in a well-ventilated area: flood with 10% sodium bicarbonate solution and large volumes of water if necessary.

WARRANTY

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but to the extent consistent with applicable law, neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions or under conditions or under conditions.

Produced for: ICL-IP America, Inc. 95 MacCorklerAvanue SW South Charleston, WV 25303 (for DOMESTIC Jabels only:}[Tel: 1-(800) 811-2327] {for INTER[IAT(ONAL labels only:}[Tel: 1-(304) 746-3000]

ÉPA:Reg. No. <u>8622-80</u> EPA Est. No. ______ [Mɛterial][Label] No. ______ NET CONTENTS: ______ [lbs.][kg.][gal.][fl. oz.] [Batch][Label] No. _____