



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 5, 2023

Dr. Matthew Brooks
Director, Ag-Chem Consulting
Applied Specialties Inc
c/o Ag-Chem Consulting
Electronic Transmittal: mwbrooks01@yahoo.com

Subject: Label Amendment – various label updates including clarification of use sites;
updates to California restriction statements; clarification of rates
Product Name: AS-790
EPA Registration Number: 46982-9
Received Date: 8/24/2023
Action Case Number: 00387956

Dear Dr. Matthew Brooks:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6) you must submit one copy of the final printed labeling before you release the product for shipment with the new 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 its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact me via email at garvie.heather@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Heather A. Garvie".

Heather A. Garvie
Senior Regulatory Advisor
Regulatory Management Branch 2
Antimicrobials Division
Office of Pesticide Programs

Enclosure

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARD

This product is corrosive to mild steel.

STORAGE AND DISPOSAL

This product (pH 3.5) is corrosive to mild steel.

PESTICIDE STORAGE: Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste 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 DISPOSAL

Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: [For containers < 5 gallons in size] – Empty the remaining contents into application equipment or a 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 a 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 containers > 5 gallons in size] - 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

CONDITIONS OF SALE AND WARRANTY

Applied Specialties, Inc. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. APPLIED SPECIALTIES, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Applied Specialties, Inc. and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL APPLIED SPECIALTIES, INC. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

UN 3265, CORROSIVE LIQUID, ACIDIC,

ORGANIC, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)]

AS-790

ACTIVE INGREDIENTS:

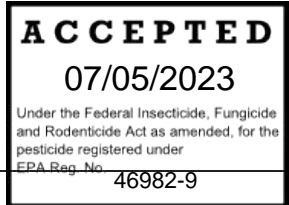
5-Chloro-2-methyl-4-isothiazolin-3-one1.11%
 2-Methyl-4-isothiazolin-3-one..... 0.37%
OTHER INGREDIENTS:..... 98.52%
TOTAL:..... 100.00%
 AS-790 microbiocide weighs 8.6 lb. per gallon

**KEEP OUT OF REACH OF CHILDREN
 DANGER - PELIGRO**

See Side panel for additional precautionary statements

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 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.
If on Skin:	*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 Inhaled:	* Move person to fresh air. * If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to- mouth, if possible. * Call a poison control center or doctor for further treatment advice
Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.	
HOT LINE NUMBER: In case of emergency, for additional information call toll free 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

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



**Precautionary Statements:
 Hazards to Humans and Domestic Animals**

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID CONTACT WITH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Mixers, loaders, and others exposed to methylisothiazolinone must wear:

- Long-sleeve shirt and long pants
- Socks and Shoes
- Goggles or face shield
- Chemical-resistant gloves (such as rubber or made out of any waterproof material)

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

User Safety Recommendations: users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
Industrial microbiocide for use in water treatment/process waters
READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

- *Some applications not approved for use in the State of California see accompanying information sheet for details.*

**EPA Reg. No. 46982-9 EPA Est. No. 46982-OH-001
 46982-AZ-001**

Manufactured By/For: Applied Specialties, Inc.
 33555 Pin Oak Parkway
 Avon Lake, OH 44012
 Tel. (440) 933-9442



Batch/Lot #:	Mfg. Date:	46982-9	Net Contents (pounds):
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AS-790

Applied Specialties Inc.

INFORMATION SHEET

THIS AS-790 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF AS-790

DIRECTIONS FOR USE

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

Typical applications and suggested range of use concentrations based on total weight of product are as follows:

INDUSTRIAL RECIRCULATING WATER COOLING TOWER	
AS-790 microbicide is recommended for the control of bacteria, algae and fungi. It should be added to the tower basin or some other point to ensure uniform mixing.	0.03 – 0.186%
For noticeably fouled systems use an initial dose of 1.25 – 7.5 lb AS-790 per 1000 gallons of water. Repeat if necessary to achieve control.	0.3 – 1.86 LB per 1000 gallons water 35 – 220 ppm AS-790

AIR WASHER SYSTEMS	
For use only in industrial air washing systems that maintain effective mist eliminating components. Add to water in the air washer sump, or chill water sump to ensure uniform mixing, for the control of bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.	0.03 – 0.75% 0.3 – 7.5 LB per 1000 gallons water 35 – 886 ppm AS-790

OIL FIELD INJECTION WATERS	
To maintain control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids. As initial dose of 57 – 115 lb AS-790 per 1000 barrels of water (162 – 324 ppm AS-790) may be used until control is achieved. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids.	23 – 58 LB (2.8 – 6.9 GAL) per 1000 barrels water 66 – 165 ppm AS-790

[*] PAPER MILLS	
For the control of bacterial and fungal slime in the production of paper. AS-790 should be added to a point such as the Beater or Hydropulper to ensure uniform mixing. [* Not approved for this use in the State of California]	0.45 – 1.5 LB of AS-790 per ton (dry basis) of pulp or paper produced as slug dose

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS	
To maintain control of bacteria, fungi and algae, add in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 1.25 – 7.5 lb AS-790 per 1000 gallons of water may be needed depending on the severity of the fouling.	0.3 – 1.86 LB per 1000 GAL of water weekly



AS-790

Applied Specialties Inc.

INFORMATION SHEET

THIS AS-790 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF AS-790

DIRECTIONS FOR USE

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

[*] BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS

To maintain control of bacteria, algae and fungi:

For noticeable fouled systems an initial treatment with 1.25 – 7.5 lb of AS-790 per 1000 gallons of water may be needed depending on the severity of the fouling.

0.3 – 1.86 LB per 1000 GAL of

water weekly or as needed

[Not approved for this use in the State of California]*

[*] ULTRA FILTRATION UNITS such as REVERSE OSMOSIS SYSTEMS

AS-790 microbicide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems.

10 – 333 ppm AS-790

Add into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injections. Compatibility of AS-790 microbicide with reverse osmosis membranes should be confirmed with membrane manufacturers.

For the control of bacteria and fungi in carbon beds:

10 -333 ppm AS-790

For periodic membrane cleaning.

Badly fouled systems should be cleaned before treatment is begun.

**0.4 – 1.0 LB per 120 GAL of
cleaning solution**

*[*Not approved for this use in the State of California]*