

U.S. Environmental Protection Agency

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuance:

90316-1

FEB

B 6 2014

Term of Issuance: Conditional

Name of Pesticide Product:

Main Stream 635

Name and Address of Registrant (include ZIP Code):

Main Stream LLC PO Box 936 Franklin, IN 46131 Mailed to:
Ron Landis
Regulatory Agent
Landis International
3185 Madison Highway
PO Box 5126

Valdosta, GA 31603-5126

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The basic formulation CSF dated September 6, 2013 of the product referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. The basic CSF will be added to your file.

This product is unconditionally registered in accordance with FIFRA section 3(c)(7)(a) provided that you:

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Signature of Approving Official:

Date:

FEB 6 2014

Tony Kish, Product Manager (22)

Fungicide Branch/Registration Division/OPP/OCSPP (7504P)

EPA Form 8570-6

Notice of Pesticide Registratic. Main Stream 635 EPA Reg. No. 90316-1 Page 2 of 2

- 1. You must submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
- 2. Make the following change to the label:
 - a. Change the product registration number to "EPA Reg. No. 90316-1"
- 3. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e). Be aware that data requirements have been identified in a Generic Data Call In (GDCI-024401-12268). For more information on these proposed data requirements, see http://www.regulations.gov/#!docketDetail;D=EPA-HQ-OPP-2010-0212. A copy of your label stamped "Accepted" is enclosed for your records.

Tony Kish Product Manager (22) Fungicide Branch Registration Division (7504P)

Main Stream 635

Algaecide/Bactericide*

Not intended for residential use.

For Impounded Waters, Lakes, Ponds, Lagoons, Waste-water Lagoons, Reservoirs, Livestock Watering Systems, Potable Water Supplies⁺, Sedimentation Basins, Ornamental Water Features, Fountains, Irrigation Conveyance Systems, Irrigation Reservoirs, Irrigation Canals, Ditches, Chemigation Systems, Control Algae and Tadpole Shrimp in Rice Fields, For Aquacultural Ponds, Feedlot Run-Off Lagoons, Animal Waste or Confinement Pits and Organic Sludge Pits.

*Bactericide - Nonpublic Health Bacteria

[†]Potable Water Supplies - Water Destined to Be Used as Drinking Water

This product contains 0.53 lbs/gal metallic copper.

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail).

ſ	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, and then continue		
	rinsing.		
	Call a poison control center or doctor for treatment advice.		
	Call a poison control center or doctor immediately for treatment advice.		
IF	Have person sip a glass of water if able to swallow.		
SWALLOWED	Do not induce vomiting unless told to do so by a poison control center or		
	doctor.		
	Do not give anything to an unconscious person.		
IF ON SKIN	Take off contaminated clothing.		
OR	Rinse skin immediately with plenty of water for 15-20 minutes.		
CLOTHING	Call a poison control center or doctor for treatment advice.		
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 treatment advice.		

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, you may also contact the National Pesticides Information Center (NPIC) at 1-800-858-7378 Monday - Friday, 7:30 am to 3:30 pm Pacific Time (NPIC Web site: www.npic.orst.edu).

You may also contact 1-(800) 890 – 6543 for emergency medical treatment.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS [ON/IN] [SIDE/BACK/BOOKLET]

MFG. BY: Main Stream LLC

ACCEP 1060 36
Franklin, N 46131

EPA REGISTRATION NO.:90316-X EPA ESTABLISHMENT NO.90316-IN-001

BATCH NO.:

FFR 6 2014 Phone: (890) 890-6543

NET CONTENTS: 55 GALLONS, 275 GALLONS

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Under the Federal Insecticide. Fungicide, and Redenticide Act. as amended, for the pesticide registered under 90316-1

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER/PELIGRO

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin or on clothing. Harmful if inhaled. Do not get in eyes, on skin or on clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, Loaders, Applicators, and other handlers must wear the following:

Long sleeved shirt and long pants,

Shoes, plus socks,

Chemical resistant gloves made of any waterproof material, and

Goggles or face shield.

Some materials that are chemical-resistant to this product are nitrile and polyvinyl chloride. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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 this product's concentrate. Do not reuse them.

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User 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.

Wash the outside of gloves before removing.

ENVIRONMENTAL HAZARDS

Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize hazard, do not treat more than ½ of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze time to prevent masses of decaying algae under an ice cover. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

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Certain water conditions including low pH (\leq 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organism.

Do not use in ornamental fish ponds or other artificial aquaculture systems containing Koi or trout.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your state and tribe, consult the agency responsible for pesticide regulation. For use in residential pools, spas and hot tubs, do not apply this product in a way that will contact adults, children or pets.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted re-entry intervals, and notification to workers.

Do not enter or allow entry into treated areas during restricted entry interval (REI) of 48 hours.

PPE required for early entry into treated areas, that is permitted by the Worker Protection Standard, and that involves contact with anything that has been treated, such as soil or water is:

- Coveralls
- Shoes plus socks
- Chemical resistant gloves made of any water-proof material
- Protective eyewear.

USE IN CONTROL OF ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS

For algae control, apply in the late spring or early summer when algae first appear. The dosages are variable and depend upon algae species, water hardness, water temperature, amount of algae present, as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperature above 60 degrees F (15.6 degrees C). Higher dosages are required at lower water temperatures, higher algae concentrations and for hard waters. See Specific Directions for Use. Application should be done by pouring a measured amount of Main Stream 635 directly from a container into the lakes, ponds, reservoirs or irrigation canals. Main Stream 635 is very soluble and will quickly disperse. Main Stream 635 application should be applied at several points in the ponds, lakes or reservoirs. Larger bodies of water can be treated with Main Stream 635 by dragging a feeder hose behind a boat across the body of water. This will speed up the dispersal of the product to give a quicker control of algae. Main Stream 635 will quickly

diffuse throughout the water body in several hours. Main Stream 635 should be applied to irrigation equipment by a drip system or feeder pump according to the flow volume. Use higher dosages for chara, nitella and filamentous algae and lower dosages for planktonic algae. If there is uncertainty about the dosage begin with the lower dosage and increase until control is achieved or until the maximum allowable level has been reached. See Specific Directions for Use.

Treatment of algae can result in oxygen loss from the decomposition of dead algae. This loss can cause fish suffocation. If the algae cover more than 1/3 of the total water area, treat in sections. Treat ½ of the water area in a single operation and wait for 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze to prevent masses of decaying algae under an ice cover. Before treating bodies of water, consult proper state authorities such as the fisheries commission or conservation department to obtain any necessary permits. For use in controlling algae and cyanobacteria at all aquatic application sites do not exceed a copper concentration in water of 1.0 ppm of metallic copper concentration.

For example, if you wish to achieve 1.0 ppm of metallic copper, 1 gallon of Main Stream 635 added to 63,000 gallons of water is equal to 1.0 ppm metallic copper. In order to attain 1.0 ppm of metallic copper in the treated water, the amount of Main Stream 635 added to a water body is equal to the gallons of water being treated divided by 63,000 multiplied by 1 (e.g., see Gallons of Main Stream 635 and Water table below). Use volumetric measurement devices that are calibrated in accordance with manufacturer specifications.

Gallons of Main Stream 635 and Water				
Gallons	Gallons	Metallic Copper		
Main Stream 635	Water	ppm		
0.1 (0.4 quarts or 0.8 pints)	6,300	1.0		
1/4 (1 quart)	15,750	1.0		
1	63,000	1.0		
1 2/3	105,000	1.0		

Use formula for calculating water volume and flow rates. Calculate the volume of water (multiply the average depth by surface area). To calculate the gallons of water multiply the volume in cubic feet times 7.5. One cubic foot per second of flow equals 27,000 gallons/hour. One acre foot equals 326,000 gallons. See below for additional directions on methods of application to flowing water and aerial spraying on rice fields.

SPECIFIC DIRECTIONS FOR USE

To Control Algae, Nonpublic Health Bacteria, and Bacteria That Cause Odor Problems in Irrigation Reservoirs, Impounded Waters, Lakes, Ponds, Lagoons, Reservoirs, Livestock Watering Systems, Potable Water Supplies*, Sedimentation Basins, and Ornamental Water Features or Fountains: For fish-bearing lakes, ponds, drinking water reservoirs, irrigation canals and other applications, apply at the rate of 1 quart of Main Stream 635 per 250,000 gallons of water, or 1 gallon of Main Stream 635 per 1,000,000 gallons of water for preventive treatment of algae and nonpublic health bacteria. This will yield a concentration of 0.06 ppm metallic copper.

If algae are present, treat at the rate of 3 quarts of Main Stream 635 per 250,000 gallons of water, or 3 gallons of Main Stream 635 per 1,000,000 gallons of water. This will yield a concentration of 0.19 ppm metallic copper.

For applications without fish or for wastewater lagoons apply at the rate of up to 1 quart of Main Stream 635 per 15,750 gallons of water, or 1 gallon of Main Stream 635 per 63,000 gallons of water. This will yield a rate of 1.0 ppm metallic copper.

Do not exceed 1 gallon of Main Stream 635 per 63,000 gallons of water (1.0 ppm metallic copper) under any circumstances for water destined for use as drinking water. Main Stream 635 may be poured into the water manually after calculating the volume of water to be treated and measuring the quantity of Main Stream 635 necessary to attain a concentration of 0.06 ppm or by using an automated dispenser calibrated to release the required amount. For best results disperse Main Stream 635 evenly throughout the body of water on a sunny day when algae are near the surface. Do not apply copper sulfate to water with less than 50 ppm alkalinity.

To Control Algae and Tadpole Shrimp in Rice Fields: Apply any time the tadpole shrimp appears from planting time until the seedlings are well rooted and have emerged through the water or at the first sign of algae growth on the surface of the field. Applications are most effective when made prior to algae leaving the soil surface and rising to the water surface and prior to appearance of the tadpole shrimp. Factors such as water depth, temperature, pH and the amount of algae can affect the amount of Main Stream 635 needed to control algae and tadpole shrimp. If the depth of water is 8 inches, apply 8.5 gallons of Main Stream 635 per acre. If the depth of water is 4 inches, apply 4.25 gallons of Main Stream 635 per acre. Main Stream 635 can be metered into the rice field as water is being applied or by aerial application. Do not exceed a copper concentration in water of 2.5 ppm of metallic copper concentration (8.5 gallons of Main Stream 635 per acre with 8 inch depth of water or 13 gallons of Main Stream 635 per acre foot of water). If tadpole shrimp are not present, do not exceed 1 ppm metallic copper.

To Control Algae or Nonpublic Health Bacteria and Bacteria That Cause Odor Problems in Open Channel Irrigation Conveyance Systems and Chemigation Systems, Ditches, Canals and Similar Irrigation Conveyances: To prevent algae growth using a static application method, apply 1 gallon of Main Stream 635 to 1,000,000 gallons of water to yield a rate of 0.06 ppm metallic copper in the water. If algae are present, apply 16 gallons of Main Stream 635 to 1,000,000 gallons of water to yield 1.0 ppm metallic copper. To prevent algae growth using continuous flow systems, a metered flow rate of 1 milliliter per minute is added to a pumping flow of 267 gallons per minute to yield a rate of 0.06 ppm metallic copper. If algae are present, do not exceed the total dose of 1 gallon of Main Stream 635 in 63,000 gallons of water (1.0 ppm metallic copper). See Example Calculation table below for continuous flow rates.

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To Control Algae or Nonpublic Health Bacteria and Bacteria That Cause Odor Problems in Sprinkler, Drip or Other Types of Irrigation Equipment: Agitation is not required. Do not mix with basic substances. Main Stream 635 must be applied continuously for the duration of the water application. To prevent growth of algae, nonpublic health bacteria, and bacteria that cause odor problems, treat at a rate of 1 gallon Main Stream 635 per 63,000 gallons of water to 1 gallon Main Stream 635 per 1,000,000 gallons of water. This will yield a rate of 1.0 ppm to 0.06 ppm metallic copper (see Example Calculation table below). If algae are visible, start by cleaning the pipes or lines and then applying 1 gallon of Main Stream 635 in 63,000 gallons of water (1.0 ppm metallic copper). See Example Calculation table below for continuous flow rates. Once the lines are cleaned, use the preventive dose described above.

EXAMPLE CALCULATION CHEMIGATION AND IRRIGATION FLOW RATES (0.06 ppm Cu)

Water Flow Rate	Water Flow Rate	Dosage Rate	Main Stream 635	Feeder Pump Setting
gpm	cfm	ppm Metallic Cu	fl oz/min	Main Stream 635 in mL/min
3,000	400	0.06	0.4	11.3
6,000	800	0.06	0.8	22.6
9,000	1,200	0.06	1.1	34.0
12,000	1,600	0.06	1.5	45.3

CHEMIGATION AND IRRIGATION FLOW RATES (1.0 ppm Cu)

Water Flow Rate	Water Flow Rate	Dosage Rate	Main Stream 635	Feeder Pump Setting
gpm	cfm	ppm Metallic Cu	fl oz/min	Main Stream 635 in mL/min
3,000	400	1.0	6.1	179
6,000	800	1.0	12.2	358
9,000	1,200	1.0	18.3	537
12,000	1,600	1.0	24.4	716

To Control Algae and Nonpublic Health Bacteria and Bacteria That Cause Odor Problems in Aquacultural Ponds: Apply at the rate of ½ to ½ gallon of Main Stream 635 per acre foot (326,000 gallons) of water to yield concentrations ranging from 0.05 ppm to 0.1 ppm metallic copper, respectively. Metallic copper concentration is directly proportional to amount of Main Stream 635 added per acre foot. A maintenance dose of 4 to 8 fluid ounces per acre foot may be used every 14 days. The rate is dependent on water temperature, fish density and the degree of suppression targeted. Call Main Stream for assistance at 1-800-890-6543.

An	iputation for Aquacultural Ponds fount of Main Stream 635 Applie One Acre Foot (12 Inches Deep)	
Gallons	Gallons	Copper
Main Stream 635	Water	ppm
0.25	326,000	0.05
0.5	326,000	0.1

BACTERIAL ODOR CONTROL

To Control Bacterial Odor in Feedlot Run-Off Lagoons, Animal Waste or Confinement Pits, and Organic Sludge Pits: Apply by pouring product directly from the container into the pit or lagoon. Several application points speed up dispersal. Use 1 gallon of full strength Main Stream 635 in 63,000 gallons (8,500 cubic feet) of sewage. This will yield a rate of 1.0 ppm metallic copper. Bacteria and odors should be noticeably reduced in 1 to 2 weeks. Repeat application when odor reoccurs. Minimum re-treatment interval is 14 days.

Feedlot Run-Off Lagoons: Add a portion of the required dosage of Main Stream 635 at several locations around the lagoon to speed dispersal of the product. A minimum of 2 applications per year (spring and fall) are recommended. Additional applications may be required as needed when the lagoon is pumped.

Animal Waste or Confinement Pits: If pits are located under the confinement buildings, add Main Stream 635 directly to these pits. If the pits are outside, add product to the transfer line to the pit.

AERIAL SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground and aerial) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph) and there are no sensitive areas within 250 feet downwind.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or unstable atmospheric conditions.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For Aerial Applications

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the water surface unless a greater height is required for air craft safety.

When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

APPLICATION AND HANDLING EQUIPMENT

Application, handling or storage equipment MUST consist of fiberglass, PVC, polypropylene, viton, corrosion resistant plastics or stainless steel. Never use mild steel, nylon, brass or copper around Main Stream 635. Always rinse and clean equipment thoroughly each night with plenty of fresh, clean water.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. Main Stream 635 will freeze. Always store Main Stream 635 above 32 degrees F (Do Not Freeze). Freezing may cause product separation.

Always keep container closed. Store Main Stream 635 in its original container only. Keep away from galvanized pipe, and any nylon storage or handling equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess Main Stream 635 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. In the event of spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

CONTAINER HANDLING:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times. Offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT READ BEFORE USING LIMITED WARRANTY AND LIMITATION OF REMEDIES

Read the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

The Directions for Use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Main Stream LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not be liable for more than the cost of this product to the buyer and will in no event be liable for any consequential, special or indirect damages connected with the use or handing of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied. Seller makes no warranty for product which has been frozen.

Manufactured by:

Main Stream, LLC P O Box 936 Franklin, IN 46131 Phone: (800) 890-6543

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