



INSECTICIDE CONCENTRATE

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Essentria™ IC³

COMPANY IDENTIFICATION:

Envincio LLC
501 Cascade Pointe Lane, Suite 103
Cary, NC 27513
www.envincio.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>ACTIVE INGREDIENTS</u>	<u>% COMPOSITION</u>
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Rosemary Oil	10.0
Geraniol	5.0
Peppermint Oil	2.0

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

EXPOSURE LIMITS: None established

3. PHYSICAL DATA

APPEARANCE: Clear Very Pale Yellow Liquid

ODOR: Faint Minty Scent

WEIGHT PER VOLUME: 0.995 g/ml

4. HAZARD IDENTIFICATION

Prolonged exposure to this product may cause dry skin, eye irritation, and drying of the nasal passages. Burning may produce toxic by-products.

State of California requires any product containing 8.5% or more of Rosemary Oil must at a minimum bear the signal word "Caution", the phrase "Keep Out of Reach of Children", appropriate precautionary language, and a requirement for protective eyewear and gloves.

5. FIRST AID

IF SWALLOWED: Rinse mouth out with water. Do not induce vomiting. Seek medical attention if feeling sick or nauseous.

IF INHALED: Move exposed person(s) to fresh air.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Wash exposed area with soap and water.

IF IN EYES: Flush with water for at least 15 minutes. Seek medical attention if irritation persists.

6. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 145°F (TCC)

FLAMMABLE LIMITS (LFL-UFL): Not tested

FIRE AND EXPLOSION HAZARDS: This product is combustible.

MEANS OF EXTINCTION: Carbon Dioxide, Dry Chemical or Foam

FIRE FIGHTING INSTRUCTIONS: None

NFPA RATING:

Health	1
Flammability	2
Reactivity	0
Other	None

7. REACTIVITY DATA

CHEMICAL STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes.

POLYMERIZATION: Will not occur

8. SPILL OR LEAK PROCEDURES

If spilled, absorb liquid with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

9. PERSONAL PROTECTION INFORMATION

Local exhaust ventilation is not required. If large quantities are handled indoors, ensure adequate mechanical ventilation.

RESPIRATORY PROTECTION: Not required with adequate ventilation. If ventilation is poor and large quantities are being handled, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).

EYE PROTECTION: Safety glasses or chemical goggles.

GLOVES: Wear Nitrile, Neoprene, or natural rubber gloves.



Manufactured for Envincio LLC
501 Cascade Pointe Lane, Suite 103, Cary, NC 27513
CHEMICAL SPILL, LEAK, FIRE: CHEMTREC 800-424-9300
MEDICAL EMERGENCIES ONLY: 866-257-4118

Effective Date: 5/1/2011



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OTHER PROTECTIVE EQUIPMENT: Long sleeve shirts, long pants, shoes, and socks.

10. HANDLING AND STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

11. TOXICOLOGICAL INFORMATION

ORAL (rat): Not determined.

ACUTE EFFECTS FROM OVEREXPOSURE: Prolonged contact with the skin may cause irritation, and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data is available.

CARCINOGENICITY:

NTP: No

OSHA: No

12. ECOLOGICAL INFORMATION

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. Triple rinse empty container then puncture container and recycle if possible. If recycling is not possible, triple rinse empty container then puncture container and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke.

14. SHIPPING INFORMATION

GROUND: Not DOT regulated in available quantities (ref: CFR 49 § 173.150 (f))

AIR: Aviation Regulated Liquid, N.O.S. (contains Rosemary Oil), Class 9, UN3334, PG III

15. REGULATORY INFORMATION

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

Envincio represents that this product is a Minimum-Risk pest control product, and qualifies for exemption from EPA registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by Envincio LLC as to the results to be obtained based upon your use of the information, nor does Envincio LLC assume any liability arising out of your use of the information.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

Essentria is a trademark of Envincio LLC.



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This information is for promotional purposes only. Space considerations may require information to be omitted.
Always refer to the actual package for complete label verbiage. This product may not yet be available or approved for sale or use in your area.

SHAKE WELL BEFORE USING



essentria™ IC³

INSECTICIDE CONCENTRATE

Kills: Crawling and Flying Insect Pests



Safe and Effective*

Quick Control with residual protection

**Multi-purpose: for indoor, outdoor, fogging, turf and ornamental,
on animal and mosquito misting applications**

Contains natural essential plant oils with fresh scent

ACTIVE INGREDIENTS:

Rosemary Oil	10.00%
Geraniol	5.00%
Peppermint Oil	2.00%

OTHER INGREDIENTS:

Oil of Wintergreen, White Mineral Oil, Vanillin, Polyglyceryl Oleate	83.00%
TOTAL:	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **(TO THE USER:** If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

See inside label booklet for FIRST AID and PRECAUTIONARY STATEMENTS.

*When used as directed.



envincio

FIFRA 25(b) Exemption

Octopamine Blocker™ TECHNOLOGY

Manufactured for Envincio LLC
501 Cascade Pointe Lane Suite 103, Cary, NC 27513

DIRECTIONS FOR USE

READ ENTIRE LABEL — USE IN ACCORDANCE WITH LABEL INSTRUCTIONS

When using this product as a space spray in food processing plants, foods should be removed or covered during treatment. Do not apply as a space spray while food processing is underway. Food processing surfaces and equipment must be covered during treatment or cleaned with an effective detergent and rinsed with potable water before reuse. Food processing operations may continue when this product is applied as a surface spray with care and in accordance with the directions and precautions given below.

SHAKE WELL BEFORE USING

Maintain agitation in all spray systems Essentria IC3 is intended for use in and around buildings and structures as well as modes of transport.

INDOOR USE AREAS: Includes, but is not limited to, apartment buildings, bakeries, beverage plants, bottling facilities, breweries, cafeterias, candy plants, canneries, cereal processing and manufacturing plants, dairy barns, poultry facilities, flour mills, food processing plants, frozen food plants, homes, hospitals, hotels, houses, industrial buildings, kennels, kitchens, laboratories, manufacturing facilities, mausoleums, meat processing and packaging plants, meat and vegetable canneries, motels, nursing homes, office buildings, restaurants, schools, stores, supermarkets, warehouses and similar structures.

OUTDOOR AREAS: Includes, but is not limited to, building foundations, dairy facilities, drive-in restaurants, drive-in theaters, golf courses, parks, playgrounds, poultry houses, recreational areas, schools, urban areas, lawns, landscape areas, trees, turf and zoos.

MODES OF TRANSPORT: Aircraft, buses, trucks, trailers, rail cars and marine vessels.

NOTE: For sensitive indoor/outdoor surfaces such as vinyl, plastic, fabric, wood floors, etc. test a small non-visible area first before spraying. This includes vinyl siding, outdoor furniture, storm doors and windows, etc. It is possible that Essentria IC3 may mar some sensitive surfaces. If spray gets on any sensitive surface that is listed, simply rinse with water and wipe off with clean cloth. Essentria IC3 may be diluted with water or oil and applied with conventional application equipment including, but not limited to, compressed air sprayers and power sprayers. When diluting with water, prepare only the amount needed for immediate use and maintain agitation during use. Do Not Store Spray Solution Overnight. For oil dilutions that are applied in food handling establishments, a deodorized petroleum oil which conforms to CFR 21 (especially section 172.884) is required (such as Exxon Isopar M, Ashland Low Odor Base Solvent or the equivalents). Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label dosages may be exceeded. This product cannot be tank mixed with any product with label prohibitions against such mixing.

Most effective results are achieved when used as part of a treatment protocol that includes physical, environmental and other chemical pest control measures.

INDOOR USE

Do not apply directly to house plants. Cover/avoid any pools or aquaria prior to spraying.

GENERAL PEST CONTROL: To control accessible, exposed stages of crawling insects including, but not limited to, ants, bed bugs, cockroaches, caddisflies, cigarette beetles, dark mealworms, dried fruit beetles, drugstore beetles, confused floor beetles, fleas, grain mites, fowl mites, mites, nuisance beetles (such as lady beetles), red flour beetles, rice weevils, saw-toothed grain beetles, spiders, spider beetles, yellow mealworms in sites that include, but are not limited to, apartments, homes, restaurants, food processing plants, industrial installations and warehouses, dilute at the rate of up to 0.5 to 6 fluid ounces of Essentria IC3 per gallon of water (use lower rate for maintenance service and higher rates for active infestations). Thoroughly spray non-visible areas where these insects are usually found with special attention to cracks and crevices, niches, dark corners, drains and other harborage sites. When treating for bedbugs thoroughly clean, vacuum, and air mattresses and springs prior to treatment. Mix Essentria IC3 at a rate of 1 to 4 ounces per gallon of water and apply as a spot treatment to cracks and crevices, around baseboards, floorboards, headboards, and walls. In hotels and other public lodging facilities pay special attention to luggage stands and the adjacent area. On mattresses and springs spot treat only areas that may harbor pests. Concentrate on tufts, seams, folds, and creases. Repeat as necessary. To prevent potential

discoloring, do not spray on visible areas (i.e. baseboards, door frames, walls, etc.) and wipe away excess. Food processing operations may continue when Essentria IC3 is applied as a surface, spot or crack and crevice treatment in accordance with the directions and precautions given above.

FOGGING: To control crawling and flying insects (moths and flies, including house flies, horse flies, stable flies, horn flies, mosquitoes, gnats, fruit flies, phorid flies, etc) in sites that include, but are not limited to, food processing plants, (INCLUDING USDA INSPECTED FACILITIES), industrial installations, animal quarters (cattle barns, horse barns, poultry barns, swine houses, zoos and warehouses), Essentria IC3 may be applied as a space spray through conventional fogging equipment misting systems (including mist sprayers and mist blowers), automated spray systems, and/or related application technologies. Cover or remove exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Also cover sensitive surfaces (plastics, etc). Close and shut off air conditioning or ventilating equipment. Mix 4 to 10 ounces of Essentria IC3 insecticide with sufficient oil to equal 1 gallon of diluted spray. (It is recommended to use lower rates in most food facility applications). Apply at a rate of 1 to 3 fluid ounces per 1000 cubic feet, filling the room with mist (or fog, if thermal equipment is used). Keep area closed for at least 15 minutes. Vacate treated area. Ventilate before reoccupying. Fogging may create slippery conditions on painted floor surfaces. Retreat if reinfestation occurs.

The product does contain plant oils that are inherently fragrant. When used in confined spaces, prolonged exposure to the fragrance may be objectionable to some individuals.

OUTDOOR USE

PERIMETER TREATMENTS AND RECREATIONAL AREAS: To control aphids, ants, bees, boxelder bugs, centipedes, cockroaches, crickets, darkling beetles, firebrats, fleas, ground beetles, fowl mites, mites, millipedes, pillbugs, silverfish, sowbugs, spiders, ticks and wasps. In compressed air sprayers, dilute 1 to 8 ounces of Essentria IC3 per gallon of water (use lower rate for maintenance service and higher rates for active infestations) and apply at the rate of 2 gallons per 1000 square feet or until area is thoroughly wet. Also apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to buildings. Treat the building foundation to a height of 2 to 3 feet with sufficient water for coverage. Make special efforts to spray areas where pest species congregate such as, but not limited to, waste receptacles, dumpsters, unoccupied picnic tables, the exterior of food handling establishments, and food pavilions. Additionally apply around potential entry areas such as, but not limited to, eaves, windows, doorways, porches, porch lights, and around utility boxes. For power sprayers, mix approximately 1 to 6 ounces of Essentria IC3 per gallon of water (use lower rate for maintenance service and higher rates for active infestations) and apply until area is sufficiently covered (usually min. 4 gallons per 1000 square feet.). Maintain agitation. Repeat as necessary.

MOUND DRENCH METHOD - FOR CONTROL OF FIRE ANTS AND OTHER MOUNDING ANTS: Dilute 2 to 4 ounces of Essentria IC3 per gallon of water. Apply 1 to 2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12 inches. For best results, apply in cool weather, such as the early morning or late evening hours, but not in the heat of the day.

MOSQUITO CONTROL AND OTHER BITING FLIES - OUTDOOR YARD OR BARRIER TREATMENT: To control adult mosquitoes and other biting flies using ground application, dilute 1 to 3 fluid ounces of Essentria IC3 per gallon of water. Treat harborage areas such as shrubbery and vegetation where mosquitoes/flyes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated. Repeat as necessary.

MOSQUITO CONTROL AND OTHER BITING INSECTS - AUTOMATIC SPRAYING SYSTEMS: Automatic spraying systems must not be programmed to release pesticides where food or feed is directly exposed. To control flies, house flies, horn flies, stable flies, horse flies, mosquitoes and gnats, add concentrate to tank and add water to obtain desired dilution. Agitate well while adding water and maintain thorough agitation while system is in use. In automatic spraying systems like, but not limited to, misting systems used for mosquito and other biting insect control, solutions of Essentria IC3 may be stored for extended periods of time, not to exceed one month, as long as the system has agitation and the appropriate quantity of adjuvant is used. Dispense diluted concentrate through automatic spraying system. Set nozzles to deliver one ounce liquid per minute. Locate nozzles to cover a maximum of 2,000 cubic feet of space per nozzle. Set timer to operate in accordance with equipment directions. Dilute Essentria IC3 just prior to use at 0.5 to 3 ounces per gallon of water (Use lower dilution rates for preventative applications).

TO CONTROL SPIDERS, FLYING INSECTS, AND OTHER NUISANCE PESTS ON AND AROUND BOAT DOCKS: As an aid in the elimination of their harborage areas, dilute 2 to 8 ounces of Essentria IC3 per gallon of water and apply at the rate of 2 gallons per 1000 square feet or until area is thoroughly wet. Since flying insects can migrate in and out of the treatment area, it is recommended to use this product as part of an Integrated Pest Management (IPM) program. This includes, but is not limited to, eliminating breeding and harborage sites.

USE ON TURF AND GRASS: Used alone as a contact spray. To control Ants, Armyworms, Billbugs, Chinch Bugs, Chiggers, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Hyperodes Weevils (adults), Japanese Beetles (adults), Mole Crickets, Sod Webworms and Ticks, dilute in a compressed air sprayer (or backpack) 2 to 4 ounces of Essentria IC3 per gallon of water and apply at the rate of 2 to 4 gallons per 1000 square feet or until area is thoroughly wet. For power sprayers mix approximately 2 to 4 ounces per gallon of water and apply until area is sufficiently covered (usually min. 4 gallons per 1000 square feet with power sprayer). Exceeding rates may create potential phytotoxicity of turf surfaces.

USE ON NON-BEARING TREES AND SHRUBS: To control Mites, Scale Insects, Mealybugs, Aphids, Lace Bugs, Whiteflies, Tent Caterpillars, Bagworms and Beetles, dilute up to 1 to 2 ounces of Essentria IC3 per gallon of water and apply using a compressed air sprayer or power sprayer until foliage is thoroughly wet. Maintain agitation.

Exceeding rates may create potential phytotoxicity on plant surfaces. Dilute with enough water to obtain thorough coverage.

LIVESTOCK USE DIRECTIONS

USE	INSECT	DILUTION • ESSENTRIA IC3	REMARKS
Livestock Spray (Beef Cattle, Swine, Goats and Sheep)	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 ounces per gal of mineral oil USP	Dilute in mineral oil USP as indicated and spray directly on the animal in sufficient amounts for proper coverage. There is no withholding period from last application to slaughter.
	Ticks and Lice	1 to 3 ounces per gal of mineral oil USP	Apply as above
Livestock Spray (Lactating Dairy Cattle)	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 ounces per gal of mineral oil USP	Dilute in mineral oil USP as indicated. Direct spray to cover thoroughly. Repeat as necessary. No milk discard is required. Care should be taken that the spray does not come in direct contact with the lactating cow's teats unless they are washed with an approved cleansing solution and dried before milking. Apply the spray at least 20 min. prior to milking or after milking has been complete.
	Ticks and Lice	1 to 3 ounces per gal of mineral oil USP	Apply as above
Horses	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 ounces per gal of mineral oil USP	Dilute in mineral oil USP as indicated and spray directly on the animal in sufficient amounts for proper coverage.
Poultry	Poultry Lice, Bedbugs, and Mites	2 to 6 ounces per gal of mineral oil USP	Spray roosts, roost poles, walls (especially cracks in walls), and nests or cages thoroughly. It is not necessary to remove poultry from the housing unit during treatment. This should be followed by spraying over the birds with a fine mist.

PREMISE USE DIRECTIONS FOR LIVESTOCK FACILITIES

USE	INSECT	DILUTION • ESSENTRIA IC3 IN WATER OR MINERAL OIL	REMARKS
Residual Surface Spray	Flies, Gnats, Litter Beetles, Darkling Beetles (lesser meal worms) Mosquitoes, Spiders, Wasps	3 to 6 ounces per gal of water or mineral oil USP	Apply 1 gallon of dilution per 500 - 1000 sq. ft. Thoroughly cover walls, ceilings or other areas where pests rest or congregate in dairy barns, horse barns, poultry houses, swine buildings, livestock sheds, and other farm buildings.
Larvacide	Maggots (fly larvae)	4 to 8 ounces per gal of water or mineral oil USP	Apply 1 gallon of dilution per 100 sq. ft. of droppings as a coarse spray. Repeat at 7 - 10 day intervals until droppings begin to cone up, then treat only "hot spots" (small areas found to have large number of maggots).

FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE CALL: CHEMTREC 1-800-424-9300

FOR MEDICAL EMERGENCIES ONLY CALL: 1-866-257-4118

KEEP ALL INSECTICIDES OUT OF REACH OF CHILDREN

FIRST AID	
If IN Eyes:	<ul style="list-style-type: none"> • 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 physician if irritation persists.
If ON Skin:	<ul style="list-style-type: none"> • Wash exposed area thoroughly with soap and water.
If INHALED:	<ul style="list-style-type: none"> • Move exposed person(s) to fresh air. • If breathing problems persist, get medical attention.
If INGESTED:	<ul style="list-style-type: none"> • Rinse mouth out with water. • Do not induce vomiting. • Obtain medical attention if feeling sick or nauseous.
Seek medical attention if necessary.	

PRECAUTIONARY STATEMENTS

Caution – May cause eye and skin irritation. Avoid contact with eyes, skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Persons handling concentrate are recommended to wear:

- Protective eyewear
- Chemical resistant gloves made of neoprene, nitrile or natural rubber

USER SAFETY RECOMMENDATIONS: User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if the product gets inside. Wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of the gloves before removing.

PHYSICAL AND CHEMICAL HAZARDS: Do not use, pour, spill or store near heat or open flame. Store only in original container.

STORAGE & DISPOSAL

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

FOR CONTAINERS LARGER THAN ONE GALLON:

PESTICIDE STORAGE AND SPILL PROCEDURES: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with trash.

CONTAINER DISPOSAL: Triple rinse or its equivalent, then offer for recycling or reconditioning, or puncture and dispose of with ordinary trash.

STORAGE: Store in original container in a dry cool place inaccessible to children and pets.

DISPOSAL: Do not reuse container. Discard in trash.

LIMITATION OF LIABILITY

To the fullest extent permitted by law, the manufacturer disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. Buyer assumes all responsibility for safety and use not in accordance with label, directions and precautionary statements.

Envincio represents that this product is a Minimum-Risk pest control product, and qualifies for exemption from EPA registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

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U.S. Patent Nos. 6,004,569
U.S. and Foreign Patent Pending

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