

1. PRODUCT AND COMPANY IDENTIFICATION**Identification of the substance or mixture****Product Name** FARMWORKS SPRAY INDICATOR**Use of the Substance/Mixture****Recommended Use** Dye**Company/Undertaking Identification****Distributed by** Ragan & Massey, Inc.
101 Ponchatoula Parkway
Ponchatoula, Louisiana 70454
United States**Emergency and contact telephone numbers****Emergency telephone number** 1 (800) 434-9300 CHEMTREC® (24 hrs)
1 (703) 527-3887
1 (800) 222-1222 Poison Control Center
Contact telephone number 1 (800) 264-5281 Product Information
1 (985) 386-6042**2. HAZARDS IDENTIFICATION**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Physical Hazards Not classified**Health Hazards** Not classified**Environmental Hazards** Not classified**OSHA Defined Hazards** Not classified**Label Elements****Hazard Symbol** None**Signal Word** None**Hazard Statement** The mixture does not meet the criteria for classification.**Precautionary Statement****Prevention** Observe good industrial hygiene practices.**Response** Wash hands after handling.**Storage** Store away from incompatible materials.**Disposal** Dispose of waste and residues in accordance with local authority requirements.**Hazard(s) Not Otherwise Classified (HNOC)** None known**Supplemental Information** None**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Component	Percentage	CAS-Number
Acid Blue 009	10%	3844-45-9
Water	90%	7732-18-5

4. FIRST AID MEASURES

IF INHALED	Move to fresh air. Get medical attention if symptoms persist.
IF ON SKIN OR CLOTHING	Wash off with soap and water. Get medical attention if irritation develops and persists.
IF IN EYES	Direct contact with eyes may cause temporary irritation. Rinse with water. Get medical attention if irritation develops and persists.
IF SWALLOWED	Rinse mouth.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media	Do not use water jet as an extinguisher, as this will spread fire
Specific Hazards	During fire, gases hazardous to health may be formed.
PPE and Precautions	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
General Fire Hazards	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

PPE and Precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8.
Containment and Clean-up	Should not be released into the environment. <u>Large Spills:</u> Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. <u>Small spills:</u> Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see Section 13.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Handling Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Storage Store in original tightly closed container. Store away from incompatible materials (see Section 10).

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Composure Exposure Limits No exposure limits noted for the ingredient(s).

Biological Limit Values No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual Protection Measures, such as Personal Protective Equipment

Eye / Face Protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection Wear appropriate chemical resistant gloves/clothing.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection not required.

General Hygiene Considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid	Odor Threshold	Not available
Physical State	Liquid	pH	< 7
Form	Liquid	Salt-Out/Crystallization Temp	Not available
Color	Dark blue	Melting Point	Not available
Odor	Not significant	Freezing Point	Not available

Boiling Point	212°F (100°C) estimated	Solubility (water)	Soluble
Flash Point	Not available	Partition Coefficient (n-octanol/water)	Not available
Evaporation Rate	< 1	Auto-ignition Temperature	Not available
Flammability	Not available	Decomposition Temperature	Not available
Flammability/Exposure Limits	Not available	Viscosity	Not available
Vapor Pressure	0.00001 hPa estimated	Other Information	
Vapor Density	Not available	Percent Volatile	82.5% estimated
Relative Density	Not available	Pounds per Gallon	9.2 (typical)

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible material.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin Contact	No adverse effects due to skin contact are expected.
Eye Contact	Direct contact with eyes may cause temporary irritation.
Acute Toxicity	Not available
Oral	LD50 (Rat) 4,000 mg/kg estimated
Skin Corrosion/Irritation	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritation	Direct contact with eyes may cause temporary irritation.
Respiratory Sensitization	Not available
Skin Sensitization	Causes mild skin irritation.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs, Overall Evaluation of Carcinogenicity**Acid Blue 009 (CAS 3844-45-9)**

Not classifiable as to carcinogenicity to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive Toxicity This product is not expected to cause reproductive or developmental effects.**Specific Target Organ Toxicity****Single Exposure** Not classified**Repeated Exposure** Not classified**Aspiration Hazard** Not available**12. ECOLOGICAL INFORMATION****Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.**Aquatic (Spray Indicator)** LC50 (Fish)
3,956 mg/l, 96 hours estimated**Aquatic (Acid Blue 009)** LC50 (Coho salmon, silver salmon. *Oncorhynchus kisutch*)
332 mg/l, 96 hours**Persistence and Degradability** No data is available on the degradability of this product.**Bioaccumulative potential** Not available**Mobility in Soil** No data available**Other Adverse Effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.**13. DISPOSAL CONSIDERATIONS****Disposal Instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.**Local Disposal Regulations** Dispose in accordance with all applicable regulations.**Hazardous Waste Code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.**Waste from Residues/Unused Products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See Disposal Instructions).**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US Federal Regulations	This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)		Not listed
SARA 304 Emergency Release Notification		Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		Not listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard Categories		
Immediate Hazard		No
Delayed Hazard		No
Fire Hazard		No
Pressure Hazard		No
Reactivity Hazard		No
SARA 302 Extremely Hazardous Substance		Not listed
SARA 311/312 Hazardous Chemical		No
SARA 313 (TRI Reporting)		Not regulated
Other Federal Regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List		Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated
Safe Drinking Water Act (SDWA)		Not regulated
US State Regulations		
US Massachusetts RTK - Substance List	Acid Blue 009 (CAS 3844-45-9)	
US New Jersey Worker and Community Right-to-Know Act		Not listed
US Pennsylvania Worker and Community Right-to-Know Law		Not listed
US Rhode Island RTK		Not regulated
US California Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	

International Inventories

<u>Country(s) or Region</u>	<u>Inventory Name</u>	<u>*On Inventory</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Phillippines	Phillippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION

Disclaimer

Ragan and Massey, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of Ragan and Massey, Inc. Ragan and Massey, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Trademarks and/or other products of Ragan and Massey, Inc. referenced herein are either trademarks or registered trademarks of Ragan and Massey, Inc. or its affiliates, unless otherwise indicated.

Preparation Date

03 22 2017