

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/14/2017 Revision date: 06/18/2018 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : MESH™-40WP

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Seed treatment, Safener

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150

Cary, NC 27513 - USA T 1-866-761-9397

1.4. Emergency telephone number

Emergency number : Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international) Spill calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887

(international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Carc. 1A H350 STOT RE 2 H373 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)





608 GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H350 - May cause cancer (inhalation).

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P273 - Avoid release to the environment.

P280 - Wear protective gloves.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

2.24% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

2.24% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

2.24% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS-US classification
Flurazole	(CAS-No.) 72850-64-7	40	Aquatic Chronic 2, H411
Dispersing agent	(CAS-No.) trade secret	1 – 5	STOT RE 2, H373
Silicon dioxide (cristobalite)	(CAS-No.) 14808-60-7	0.1 – 1.5	Carc. 1A, H350

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : May cause cancer by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Use personal

protective equipment as required. Do not breathe dust.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.

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Methods for cleaning up

: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid creating or spreading dust.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Store in a dry, cool area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

MESH™-40WP

ACGIH	Not applicable
OSHA	Not applicable
Flurazole (72850-64-7)	
ACGIH	Not applicable
OSHA	Not applicable

Silicon dioxide (cristobalite) (14808-60-7)		
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m ³
ACGIH	Remark (ACGIH)	(respirable dust)
OSHA	OSHA PEL (TWA) (ppm)	250 mppcf
OSHA	Remark (OSHA)	(3) See Table Z-3.

Dispersing agent (trade secret)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Inhalable particulates not otherwise specified); 3 mg/m³ (Respirable particulates not otherwise specified)
OSHA	Not applicable	

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Emergency

eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves resistant to chemical penetration. Wear dust impervious gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Appropriate dust or mist respirator

should be used if airborne particles are generated when handling this material.

Environmental exposure controls : Prevent leakage or spillage. Prevent contaminated water run-off.

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1.

Information on basic physical and chemical properties Physical state : Solid Appearance Powder. Colour white Odour : characteristic Odour threshold No data available рΗ No data available No data available Melting point No data available Freezing point Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Explosive limits No data available Explosive properties : No data available Oxidising properties : No data available : No data available Vapour pressure : No data available Relative density No data available Relative vapour density at 20 °C Density 320 - 384 kg/m³ Solubility : No data available Log Pow : No data available Log Kow No data available Auto-ignition temperature No data available No data available Decomposition temperature

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, kinematic

Viscosity, dynamic

Viscosity

No dangerous reactions known.

10.2. **Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

: Inhalation; Skin and eye contact Likely routes of exposure

: Not classified Acute toxicity

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: No data available

: No data available

No data available

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Flurazole (72850-64-7)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 5010 mg/kg		
Dispersing agent (trade secret)			
LD50 oral rat	> 12000 mg/kg		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: May cause cancer.		
Silicon dioxide (cristobalite) (14808-60	0-7)		
IARC group	1 - Carcinogenic to humans		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified		
Symptoms/effects after inhalation	: May cause cancer by inhalation.		
SECTION 12: Ecological inform	ation		
12.1. Toxicity			
Ecology - water	: Toxic to aquatic life with long lasting effects.		
Flurazole (72850-64-7)			
LC50 fish 1	8.5 mg/l 96 h rainbow trout		
EC50 Daphnia 1	6.3 mg/l 48 h		
LC50 fish 2	8.5 mg/l 96 d Salmo gairdneri		
Dispersing agent (trade secret)			
LC50 fish 1	361 ppm 96h Pimephales promelas		
12.2. Persistence and degradability			
MESH™-40WP			
Persistence and degradability	May cause long-term adverse effects in the environment.		

Dispersing agent (trade secret)	
Persistence and degradability	Biodegrades slowly.
Biochemical oxygen demand (BOD)	0.021 g O₂/g substance (5 day/day); 0.043 g O2/g (30 day/days)

12.3. Bioaccumulative potential

MESH™-40WP	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Flurazole), 9, III

UN-No.(DOT) : UN3077

Proper Shipping Name (DOT) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Flurazole)

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Dangerous for the environment : Yes

Marine pollutant : Yes



Additional information

Emergency Response Guide (ERG) Number : 171

Other information : Non-bulk (<= 882 lbs / 400 kg) Not Regulated; Bulk (> 882 lbs / 400 kg) Regulated as stated

Transport by sea

IMDG

Transport hazard class(es) (IMDG) :



Marine pollutant : Yes UN-No. (IMDG) : 3077

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Flurazole), 9, III,

MARINE POLLUTANT

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

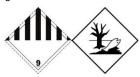
Packing group (IMDG) : III - substances presenting low danger

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F

Air transport

IATA

Transport hazard class(es) (IATA) : 9



Marine pollutant : Yes UN-No. (IATA) : 3077

Transport document description (IATA) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Flurazole), 9, III

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Flurazole (72850-64-7)	
EPA TSCA Regulatory Flag	P - P - indicates a commenced Premanufacture Notice (PMN) substance.
Dispersing agent (trade secret)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).

15.2. International regulations

CANADA

Flurazole (72850-64-7)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Silicon dioxide (cristobalite) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Dispersing agent (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations



This product can expose you to Silicon dioxide (cristobalite), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Silicon dioxide (cristobalite) (14808-60-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Silicon dioxide (cristobalite) (14808-60-7)

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date	: 06/18/2018
Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Other information	: None.

Full text of H-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1A	Carcinogenicity, Category 1A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

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	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Indication of changes:

Product and company identification.

The Redstone Group, LLC. 6077 Frantz Rd SDS Prepared by:

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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