

## MATERIAL SAFETY DATA SHEET

### **Bestguard Star 35 FS**

#### SECTION 1: PRODUCT IDENTIFICATION

Product name: Fludioxonil 25g/L + Metalaxyl-M 10g/L FS

Use catalogue: Fungicide

Company:

Name of the company: Jiangsu Aijin Agrochemical Co., Ltd.

Address: No.65 Shuangxiang Road, Xiongzhou Subdistrict, Luhe District, Nanjing, 211511, China

Postal code en City: 210000

P.O. Box: 211800

Telephone number: 0086-25-86518999

E-mail address of the person who is responsible of the contents of the MSDS:

reg@essencechem.com

Emergency phone number: 0086-25-86518999

#### SECTION 2: HEALTH HAZARD INFORMATION



GHS Signal Word: Warning

GHS Hazard Phrases:

H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life

GHS Precaution Phrases:

P201: Obtain special instructions before use.

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

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P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}

GHS Response Phrases:

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical attention/advice.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment {see ... on this label}.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

## SECTION 3: COMPOSITION AND INGREDIENT INFORMATION

Common name: Fludioxonil + Metalaxyl-M Chemical

name:

Fludioxonil: 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile  
Metalaxyl-M: methyl N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-D-alaninate

Molecular formula:

Fludioxonil:  $C_{12}H_6F_2N_2O_2$  Metalaxyl-M:

$C_{15}H_{21}NO_4$

Ingredients	CAS Number	Content, g/L
Fludioxonil	131341 86 1	25.0



Metalaxyl-M	70630 17 0	10.0
Other ingredients determined as non-hazardous	-	To balance

#### SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Get medical attention if irritation develops and persists.

Ingestion: Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. Obtain medical attention.

Notes to physician:

Symptoms: Non-specific symptoms.

There is no specific antidote if this product is ingested. Treat symptomatically.

#### SECTION 5: FIRE AND EXPLOSION INFORMATION

Suitable extinguishing media: Water spray; Alcohol-resistant foam; Carbon dioxide (CO<sub>2</sub>); Dry powder.

Specific hazards during fire fighting: In the event of fire the following may be released: Carbon monoxide (CO), Hydrogen chloride (HCl), Nitrogen oxides (NO<sub>x</sub>)

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Environmental precautions: Do not allow to get into surface water, drains and ground water. If the product contaminates rivers, lakes or drains inform respective authorities.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labelled and tightly closed container.

## SECTION 7: HANDLING AND STORAGE

Handling: Wear protective clothing such as impervious gloves, respiratory mask and goggles. Read the label before use.

Storage: Keep in original container, tightly closed, out of reach of children. Keep away from foodstuffs and animal feeding stuffs. Avoid extreme temperature.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiration protection: Avoid breathing mist. Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Eye protection: Where there is significant potential for eye contact, wear chemical safety goggles.

Skin protection: Wear appropriate protective clothing and gloves to prevent excess skin contact. Wash contaminated skin promptly

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red liquid Odor: Characteristic Odor pH: 5.0-8.0

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## SECTION 10: STABILITY AND REACTIVITY INFORMATION

Storage stability: Stable under all normal use and storage conditions Incompatible materials: None known.

Hazardous decomposition products: Can decompose at high temperatures and form toxic gases.

Hazardous polymerization: Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

Oral: Acute oral LD<sub>50</sub> for rats >2000 mg/kg.

Skin and eye: Acute percutaneous LD<sub>50</sub> for rats >4000 mg/kg.

Inhalation: LC<sub>50</sub> for rats >2.0 mg/l.

Irritation: Slightly irritating to skin and moderately irritating to eyes Skin

sensitization: Not a skin sensitization

## SECTION 12: ECOLOGICAL INFORMATION

For Fludioxonil tech:

Birds: LD<sub>50</sub> for bobwhite quail >2000 mg/kg. mallard ducks >2000 mg/kg.  
Acute oral (5 d) for bobwhite quail >5000, mallard ducks >5000mg/kg diet.  
LD

Dietary LC<sub>50</sub>

Fish: LC<sub>50</sub> (96 h) for rainbow trout 0.23 mg/l.

Daphnia: EC<sub>50</sub> (48 h) 0.4 mg/l.

Algae: E<sub>b</sub>C<sub>50</sub> (72 h) for Skeletonema costatum 0.93 mg/l.

Bees: LD<sub>50</sub> (oral) >100 µg/bee. LD<sub>50</sub> (contact) >100 µg/bee.

For Metalaxyl-M tech:

Birds: LD<sub>50</sub> for bobwhite quail 1070 mg/kg. LC<sub>50</sub> (5d) for bobwhite quail >5600 mg/kg.

Fish: LC<sub>50</sub> (96 h) for rainbow trout >100 mg/l.

Daphnia: LC<sub>50</sub> (48 h) >100 mg/l.

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Algae: EC<sub>50</sub> (72 h) 103 mg/l.

Bees: LD<sub>50</sub> (48 h) (contact) >100 µg/bee; (oral) >100 µg/bee.

Worms: LC<sub>50</sub> (14 d) >500 mg/kg soil.

Persistence and degradability: Not rapidly biodegradable Bioaccumulative potential; Does not bioaccumulate.

### SECTION 13: DISPOSAL CONSIDERATIONS

Product:

Do not dispose of waste into sewer.

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Contaminated packaging

Triple rinse containers.

Do not use containers for other products.

The empty containers must be taken, where possible, to a waste collection system licensed for waste management of packaging materials in agriculture.

Not completely emptied packagings should be disposed of as hazardous waste.

### SECTION 14: TRANSPORT INFORMATION

UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains Fludioxonil + Metalaxyl-M)

UN No.: 3082

Transport hazard class(es): 9

Packing group: III

Environmental hazards: Yes

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## SECTION 15: REGULATORY INFORMATION

R-phrases(s):

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s):

S24 Avoid contact with skin.

S35 This material and its container must be disposed of in a safe way.

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

## SECTION 16: OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions. This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. It should be read taking into account how the product is handled in your particular situation and how it is used in conjunction with other products.

