# **Material Safety Data Sheet**

Aria<sup>TM</sup> Insecticide

**SDS** #: 6248-A **Revision Date:** 2012-02-08

Version 0.01



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Aria™ Insecticide

Formula code 6248-A

Active Ingredient(s) Flonicamid

Alternate Commercial Name Flonicamid 50 SG

Synonyms N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide

Chemical Family Pyridinecarboxamide Insecticide

Manufacturer Emergency telephone number

FMC Corporation

Agricultural Products Group Medical Emergencies:

1735 Market Street (800) 331-3148 (U.S.A. & Canada)

Philadelphia, PA 19103 +1 (651) 632-6793 (All Other Countries - Collect)
General Information: For leak, fire, spill or accident emergencies, call:
Phone: (215) 299-6000 +1 800 / 424 9300 (CHEMTREC - U.S.A.)

E-Mail: msdsinfo@fmc.com +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

# 2. Hazards identification

Appearance solid granules

Physical state dry powder

**Odor** mild

Flammable properties Combustible material

Potential health effects

Acute effects

**Eyes** May cause slight irritation.

**Skin** Does not pose a potential of skin irritation and sensitization.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic effects** Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very

susceptible persons. See Section 11 for additional Toxicological Information.

**Environmental hazard** See Section 12 for additional Ecological Information.

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# 3. Composition/information on ingredients

### Hazardous ingredients

Chemical Name	CAS-No	Weight %
Flonicamid	158062-67-0	50
Formaldehyde condensate	RR-24503-4	1 - 5
Dioctyl sodium sulfosuccinate	577-11-7	1 - 5

#### 4. First aid measures

Eye contact Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or

persists.

Skin contact Take off contaminated clothing. Wash skin with soap and water. Call a poison control center or

doctor for treatment advice. Have the product container or label with you when calling a poison

control center or doctor, or going for treatment.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If symptoms

persist, call a physician.

Ingestion If swallowed, call a poison control center or doctor immediately. Drink 1 or 2 glasses of water. Do

not induce vomiting or give anything by mouth to an unconscious person.

## 5. Fire-fighting measures

Flammable properties Combustible material

Sensitivity to Mechanical Impact Sensitivity to Static Discharge not applicable not applicable

Suitable extinguishing media Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. If necessary: Use water spray or fog; do not use straight

streams

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate downwind.

**NFPA** 

Health Hazard 1
Flammability 1
Stability 0
Special Hazards

# 6. Accidental release measures

**Personal precautions** For personal protection see section 8., Isolate and post spill area, Remove all sources of ignition,

Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions Keep people and animals away from and upwind of spill/leak, Keep material out of lakes, streams,

ponds, and sewer drains

Methods for containment Cover powder spill with plastic sheet or tarp to minimize spreading. Use a wet sweeping compound

or water to prevent dust formation. Dike far ahead of spill to collect runoff water. Vacuum, shovel or

pump waste into a drum and label contents for disposal.

Methods for cleaning up Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb

rinsate and add to the collected waste. Dispose of waste as indicated in Section 13.

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Other For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product

and Company Identification" above.

7. Handling and storage

**Handling** Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Reference

to other sections.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames,

hot surfaces and sources of ignition. Store in original container only.

8. Exposure controls/personal protection

**Exposure guidelines**This product does not contain any hazardous materials with occupational exposure limits established

by the region specific regulatory bodies.

Occupational exposure controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits, When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and

wear the recommended equipment.

**Personal Protective Equipment** 

General Information Clean water should be available for washing in case of eye or skin contamination. Wash hands prior

to eating, drinking chewing gum or using tobacco. Shower or bathe at the end of working.

**Respiratory protection** For dust, splash, mist or spray exposures wear a filtering mask.

**Eye/face protection** For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

**Skin and body protection** Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

**Hand protection** Protective gloves

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to

eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household

laundry.

9. Physical and chemical properties

Appearancesolid granulesColorlight brownPhysical statedry powder

**Odor** mild

pH 6.0 @ 25 °C (1% solution)
Melting Point/Range No information available.
Freezing point No information available

Boiling Point/Rangenot applicableFlash Pointnot applicableEvaporation ratenot applicableAutoignition Temperaturenot applicableFlammable propertiesCombustible material

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Vapor pressureNo information availableVapor densityNo information available

**Density** 33.5 lb/cu ft (loose); 37.2 lb/cu ft (tapped)

Water solubility Soluble in water

Percent volatile No information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

# 10. Stability and reactivity

**Stability** Stable

Conditions to avoid Heat, flames and sparks

**Hazardous decomposition products** Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous polymerization Hazardous polymerization does not occur

# 11. Toxicological information

Eye contactMay cause temporary eye irritation (rabbit).Skin contactNon-irritating during normal use (rabbit).

**LD50 Dermal** Similar material > 2,000 mg/kg (rat)

**LD50 Oral** > 2,000 mg/kg (rat)**LC50 Inhalation:** > 5.36 mg/L 4 hr (rat)

**Sensitization** Based on a similar formulation, this product is not expected to produce skin sensitization.

 $\underline{\textbf{Chronic Toxicity - Other Ingredient}(s)}$ 

Chronic Toxicity Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very

susceptible persons. See Section 11 for additional Toxicological Information.

Carcinogenicity Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential

Mutagenicity Not mutagenic.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards at concentrations >0.1%

**Developmental Toxicity** Flonicamid: Not teratogenic in animal studies.

## 12. Ecological information

#### **Ecotoxicity**

Flonicamid (158062-67-0)

Active Ingredient(s)	Duration	Species	Value	Units
Flonicamid Technical	96 h LC50	Bluegill sunfish, Rainbow	>100	mg/L
		trout		

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96 h LC50	Sheepshead minnow	>120	mg/L
48 h LC50	Daphnia magna	>100	mg/L

Other Ingredient(s)	No known effect based on information supplied.				
Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	
Dioctyl sodium sulfosuccinate		LC50 20-40 mg/L Oncorhynchus mykiss 96 h LC50< <24 mg/L Oncorhynchus mykiss 96 h LC50 37 mg/L Lepomis macrochirus 96 h		EC50 36 mg/L 48 h	

#### **Environmental Fate**

**Persistence and degradability** Based on a similar formulation, biodegradation in soil is 1 - 10 days.

## 13. Disposal considerations

Waste disposal methods Can be incinerated, when in compliance with local regulations. The appropriate regulatory agencies

should be contacted prior to disposal.

Contaminated packaging Dispose of in accordance with local regulations. Completely empty bag into application equipment.

When completely empty, offer for recycling if available, or dispose of bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# 14. Transport information

**<u>DOT</u>** Not regulated in transportation.

Packaging Type Non-Bulk

**TDG** Not regulated in transportation.

ICAO/IATA Not regulated in transportation.

**IMDG/IMO** Not regulated in transportation.

# 15. Regulatory information

## **U.S. Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health HazardyesChronic Health HazardyesFire HazardnoSudden Release of Pressure HazardnoReactive Hazardno

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#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **International Regulations**

Mexico - Grade No information available

# Canada

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

WHMIS Hazard Class Non-controlled

## 16. Other information

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**Reason for revision:** (M)SDS sections updated.

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**End of Material Safety Data Sheet**