

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

Arysta LifeScience NA Corp.
15401 Weston Pkwy, Ste. 150
Cary, NC 27513

EMERGENCY TELEPHONE NUMBERS:

FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE CALL:
1-866-303-6952

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure,
or accident call CHEMTREC 1-800-424-9300

PRODUCT NAME : Kumulus® DF Fungicide
CHEMICAL NAME : Sulfur
CHEMICAL FAMILY : Sulfur
PRODUCT CODE : EPA Reg. No. 51036-352-66330

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Sulfur	80.0	7704-34-9	Not Est.	Not Est.
Inerts	20.0	N/A	Not Est.	Not Est.

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Gray/Brown granules

ODOR: Sulfur

MELTING POINT: 115°C

SPECIFIC GRAVITY: 0.8 - 1.0 kg/L

pH: N/D

VAPOR PRESSURE mmHg @ 20 C: N/D

WATER SOLUBILITY: Disperses

SECTION 4 - FIRE & EXPLOSION HAZARD

FLASHPOINT (method): 210°C/410°F

FLAMMABLE LIMITS (LFL-UFL): N/D

FIRE AND EXPLOSION HAZARD: Can form flammable dust/air mixtures @ 80 g/Cubic m air.
The following can be given off in a fire: sulphur dioxides.

EXTINGUISHING MEDIA: Use water fog, CO(2) or dry chemical extinguishing media.

FIRE FIGHTING EQUIPMENT: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

SECTION 5 - HEALTH DATA

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	-	>2200 mg/kg
Dermal LD ₅₀ (rat)	-	>2000 mg/kg
Inhalation LC ₅₀ (rat) (4 hr)	-	>5.4 mg/L
Eye Irritation (rabbit)	-	Not irritating
Skin Irritation (rabbit)	-	Not irritating
Dermal Sensitization (guinea pig)	-	Non-sensitizing

EFFECTS OF OVEREXPOSURE: Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin and clothing.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Routes of exposure to this material include eye and skin contact or inhalation. Contact with the eyes and skin may result in mechanical irritation. Inhalation of the dusts or powders may result in respiratory irritation. Ingestion of the solid may result in gastric disturbances.

EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THIS MATERIAL: No information found for this mixture.

FIRST AID PROCEDURES:

IF SWALLOWED - Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF IN EYES - Get medical attention if irritation develops.

IF ON SKIN - Wash with plenty of soap and water. Get medical attention if irritation develops.

SECTION 6 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Avoid moisture and excessive temperatures; flammable dust/air mixtures can form @ 80 mg/cubic m air.

CHEMICAL INCOMPATIBILITY: Not known.

HAZARDOUS DECOMPOSITION PRODUCTS: SO₂

HAZARDOUS POLYMERIZATION: Does not occur.

CORROSIVE TO METAL: No

OXIDIZER: No

SECTION 7 - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS: Refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard in 40 CFR Part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

RESPIRATORY PROTECTION - Supplied air respirators should be worn if large quantities of dust are generated or prolonged exposure possible.

EYE PROTECTION - Chemical goggles when respirator does not provide eye protection.

PROTECTIVE CLOTHING - Gloves, long-sleeved shirt, and slacks.

VENTILATION - Whenever possible, engineering controls should be used to minimize the need for personal protection.

SECTION 8 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY:

96 hour LC₅₀, Trout - >100 mg/L

48 hour EC/LC₅₀, Daphnia - >100 mg/L

72 hour EC/LC₅₀, Algae - 290 mg/L

SARA TITLE III STATUS:

Section 313: Not Listed

Fire: Yes

Sudden Pressure: No

Reactivity: Yes

Acute: Yes

Chronic: No

TPQ: 10,000 lbs

SPILL AND LEAK PROCEDURE: Contain spills and place in suitable containers for disposal. This material is not regulated under RCRA or CERCLA ("Superfund").

HAZARDOUS SUBSTANCE SUPERFUND: No

WASTE DISPOSAL METHOD: Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

CONTAINER DISPOSAL: Dispose of in licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION 9 - TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: None

DOT HAZARD CLASSIFICATION: None

DOT LABELS REQUIRED: None

DOT PLACARDS REQUIRED: None

BILL OF LADING DESCRIPTION: Fungicide, agricultural, NOIBN

CERCLA REPORTABLE QUANTITY: None

SECTION 10 - ADDITIONAL INFORMATION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

KEEP OUT OF REACH OF CHILDREN

CAUTION

Made in Germany

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Arysta LifeScience North America (ALSNA) Corporation's knowledge. ALSNA makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. To the extent permitted by law, we disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

REVISED DATE: April 23, 2007
REVISED FOR: Add new Company name, address, registration number and
Emergency telephone numbers
REVISED BY: A. Brown
APPROVED BY: S. Seckinger