



Safety Data Sheet

SECTION 1. IDENTIFICATION

Product Name: **Narvos 50 WDG Fungicide**
EPA Registration No.: 92808-2-84237
Recommended Use: **Fungicide**
Manufacturer: Solera ATO, LLC
12230 E Del Norte
Yuma, AZ 85367
Customer Service (928) 503-1518

FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

HAZARD CLASSIFICATION

Acute Oral Toxicity: Category 4; Acute dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 3;
Acute aquatic Toxicity: Category 1

SIGNAL WORD

CAUTION

HAZARD STATEMENTS

This pesticide is toxic to freshwater and estuarine fish and invertebrates. **DO NOT** apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment wash water or rinsate.

PICTOGRAMS



PRECAUTIONARY STATEMENTS

Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. **DO NOT** get on skin, in eyes or on clothing. Avoid breathing vapor or spray mist.

DESCRIPTION OF HAZARDS NOT OTHERWISE CLASSIFIED

Surface Water Advisory

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water (via both dissolution in runoff water and adsorption to eroding soil) for several days post application.

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in alkaline areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Wt</u>
Kresoxim-methyl: (methyl (E)-2-methoxyimino-2-[2-(o-tolylloxymethyl)phenyl] acetate	143390-89-0	50.0%
Ammonium Sulfate	7783-20-2	15.0%

SECTION 4. FIRST AID MEASURES

If on skin or clothing

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice

If in eyes

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice

If swallowed

Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Call a Poison Control Center or doctor for treatment advice

If inhaled

Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth to mouth if possible. Call a Poison Control Center or doctor for treatment advice.

SECTION 5. FIRE FIGHTING MEASURES

FIRE EXTINGUISHING EQUIPMENT:

Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

FIRE AND EXPLOSION HAZARDS:

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons.

The substances/groups of substances mentioned can be released if the product is involved in a fire. If product is heated above decomposition temperature, toxic vapours will be released.

PPE FOR FIREFIGHTERS/FIRE FIGHTING INSTRUCTIONS:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

EMERGENCY PROCEDURES

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions.
Extinguish sources of ignition nearby and downwind.

METHODS FOR CLEANING UP

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed.

CLEANUP PROCEDURES

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING
Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapors. Wear suitable personal protective clothing and equipment.

Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

STORING PROCEDURES

Segregate from foods and animal feeds.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Protect from temperatures above: 40 °C. Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

WORK/HYGIENIC PROCEDURES

WORKERS. PESTICIDE APPLICATORS & WORKERS must 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 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (polyethylene or polyvinyl chloride)
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granular solid
Odor::	Not determined due to potential health hazard by inhalation.
Color:	Light tan or pale to white
pH value:	6.8
Flash point:	not applicable
Powder density:	1.4234 g/mL
Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen monoxide, nitrogen dioxide, Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.
Solubility in water:	dispersible

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

The product is stable if stored and handled as prescribed/indicated.

REACTIVITY

The product had a reaction with sodium hypochlorite.

OTHER (Incompatibility, conditions to avoid, decomposition)

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Incompatible materials

strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen monoxide, nitrogen dioxide, Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

SECTION 11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact

Acute Toxicity/Effects

Oral LD50 > 5,000 mg/kg

Inhalation LC50 > 2.08 mg/l

Dermal LD50 > 5050 mg/kg

Skin Irritation: Slightly irritating – Category IV

Sensitization: Not a sensitizer

Eye Irritation: Minimally irritating – Category IV

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Kresoxim-methyl

Assessment of carcinogenicity: Very high concentrations in the range of the maximum tolerated dose (MTD) have caused liver tumors in rats after chronic exposure. These concentrations will not be achieved under practical conditions.

Indication of possible carcinogenic effect in animal tests.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information

Misuse can be harmful to health.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Medical conditions aggravated by overexposure

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

SECTION 12. ECOLOGICAL INFORMATION

The ecological data given are those of the active ingredient. Do not release untreated into natural waters. This pesticide is toxic to freshwater and estuarine fish and invertebrates.

Toxicity (Active ingredient - Kresoxim-methyl– not formulated product)

Aquatic toxicity: Very toxic (acute effect) to aquatic organisms.

Toxicity to fish: *LC50 (96 h) 0.19 mg/l, Oncorhynchus mykiss*

Aquatic invertebrates: *EC50 (48 h) 0.186 mg/l, Daphnia magna*

Aquatic plants : *EC50 (72 h) 0.063 mg/l (growth rate), Ankistrodesmus*

Assessment of terrestrial toxicity: Acutely harmful to terrestrial organisms.

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL/ DISPOSAL

Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility.

If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or

Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. Read and follow applicable label directions.

SECTION 14. TRANSPORT INFORMATION

USDOT: Not classified as a dangerous good under transport regulations

IMDG

Hazard class: 9

Packing group: III

ID number: UN 3077

Hazard label: 9, EHSM

Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains KRESOXIM-METHYL 50%)

SECTION 15. REGULATORY INFORMATION

TSCA: Exempt/Not Listed

OSHA: Skin/Eye irritant

CA Prop 65: No significant risk.

SECTION 16. OTHER INFORMATION

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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