

Ornazin® 3% EC

SAFETY DATA SHEET



Ornazin® 3% EC

Botanical Insecticide

Section 1. Identification

: Ornazin® 3% EC Botanical Insecticide **Product name** Other means of identification: EPA Registration Number 5481-476-67690

Recommend Use: : Botanical Insecticide, Repellant, Insect Growth Regulator and Nematicide

Recommended Restrictions: Keep out of the Reach of Children

Supplier's details : SePRO Corporation

11550 North Meridian Street

Suite 600

Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290

Monday - Friday, 8am to 5pm E.S.T.

www.sepro.com

Emergency telephone : INFOTRAC - 24-hour service 1-800-535-5053

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2. Hazards identification

Physical hazards Flammable liquids Category 4

Health hazards Serious eye damage/eye irritation Category 2A Category 2

Reproductive toxicity

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Combustible liquid.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to

extinguish.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC) None known.

Supplemental information This is a pesticide product registered by the United States Environmental Protection Agency

and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety

data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also

includes other important information, including directions for use.

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear long-sleeved shirt, long pants, shoes and socks. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling. Remove and launder

contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from the treated area. Do not contaminate

water when disposing of equipment washwaters.

Section 3. Composition/information on ingredients

Mixtures		
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Common Name and Synonyms CAS Number %

Azadirachtin Technical 11141-17-6 3.0%

Additional Components

Chemical Name

Chemical NameCommon Name and SynonymsCAS Number%Inert IngredientsN/A97

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.



Section 4. First aid measures

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms

develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects,

acute and delayed Irritation of eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep

victim under observation. Symptoms may be delayed.

General information If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

(show the label where possible). Show this safety data sheet to the doctor in attendance.

Section 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising

from the chemical The product is combustible, and heating may generate vapors which may form explosive

vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for

firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you

can do so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.



Section 7. Handling and storage

Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Section 8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides Components Type Value

ComponentsTypeValueTrade SecretTWA2 mg/m3
0.5 ppm

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls Ensure adequate ventilation, especially in confined areas. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Not applicable.

General hygiene

considerations Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

Section 9. Physical and chemical properties

Appearance

Physical State Liquid Form Liquid Odor Clear brown

Odor Slightly pungent odor

Odor threshold Not available

pH 4.2 - 4.4 (5% solution)

Melting point/freezing point -112 °F (-80 °C) estimated

Initial boiling point 352 °F (178 °C) estimated

Flash point 167 °F (75 °C) estimated

Evaporation rate 0.03 (butyl acetate = 1.00)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit

lower/upper (%) 1.5 / 9.7 % estimated

Explosive limit Not available.

Vapor pressure 8.32E-01 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Emulsifies

Auto-ignition temperature 540 °F (282 °C) estimated

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density 9.01 lb/gal

Density 1.08 g/cm³

Flammability class Combustible IIIA estimated

Specific gravity 1.052 estimated

Section 10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products Emits hazardous fumes and smoke of unknown composition when heated to decomposition or

burned.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity

Acute toxicity Harmful if inhaled.

Product/ingredient name	Result	Species	Dose	Exposure
Ornazin 3% EC	LD50 Dermal LD50 Oral LD50 Inhalation	Rat	> 5050 mg/kg > 5050 mg/kg > 2.6 mg/L	-

Irritation/Corrosion

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/

eye irritation Causes serious eye irritation.

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SDS Ornazin® 3% EC

Sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Skin sensitizer.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

OSHA Specifically Regulated

Substances

(29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure- repeated exposureNot classifiedNot classified

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

Section 12. Ecological information

EcotoxicityThe product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

For Azadirachtin Technical (CAS 11141-17-6)

Chinook salmon

(Oncorhynchus tshawytscha) 96 hr LC₅₀: 4 mg/l

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Sepro

Waste from residues/unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of container and

residues in accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after

container is emptied. Empty containers should be taken to an approved waste handling site

for recycling or disposal.

Section 14. Transport information

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code Not established

Section 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

This product is currently registered under EPA/FIFRA Regulations. it is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read and follow all label

directions. This product is excluded from listing requirements under EPA/TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707,

Subpt. D) Not regulated.

CERCLA Hazardous

Substance List (40CFR302.4) Not listed.

SARA 304 Emergency

release notification Not regulated.

OSHA Specifically Regulated

Substances

(29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance Not listed.

SARA 311/312

Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

California Controlled Substances.

CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

Massachusetts RTK - Substance List

TRADE SECRET (CAS Proprietary)

New Jersey Worker and Community Right-to-Know Act

Not listed.

Pennsylvania Worker and Community Right-to-Know Law

TRADE SECRET (CAS Proprietary)

Rhode Island RTK Not regulated.

California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This

material is not known to contain any chemicals currently listed as carcinogens or reproductive

toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No.

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory

administered by the governing country(s).

Section 16. Other information

Date of Issue: September 10, 2015

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act



IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 01

Further information Not available.

HMIS® ratings Health: 2*

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 2 Instability: 0

Disclaimer

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