

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

SECTION 1. IDENTIFICATION

Product name : DENIM INSECTICIDE
Design code : A10325A

Product Registration number : 100-903

Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC
Address : Post Office Box 18300
Greensboro NC 27419
United States of America (USA)

Telephone : 1 800 334 9481
Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com
Emergency telephone : 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Restricted Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Flammable liquids : Category 4

Serious eye damage : Category 1

Specific target organ toxicity : Category 1 (Nervous system)
- single exposure

Specific target organ toxicity : Category 1 (Nervous system)
- repeated exposure

Other hazards

None known.

GHS label elements

Hazard pictograms :



Signal Word : Danger

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Hazard Statements : H227 Combustible liquid.
H318 Causes serious eye damage.
H370 Causes damage to organs (Nervous system).
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Supplemental Hazard Statements : Corrosive to the respiratory tract.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 Store in a well-ventilated place.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
hexan-1-ol	111-27-3*	$\geq 45 - \leq 70$	TSC
distillates (petroleum), solvent-refined light paraffinic	64741-89-5*	$\geq 3 - \leq 7$	TSC
emamectin benzoate (ISO)	155569-91-8*	2.1362	-
2,6-di-tert-butyl-p-cresol	128-37-0*	$\geq 0.5 - \leq 1.5$	TSC

* Indicates that the identifier is a CAS No.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

TSC- the actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- | | | |
|---|---|---|
| General advice | : | Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment. |
| If inhaled | : | Take the victim into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control center immediately. |
| In case of skin contact | : | Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use. |
| In case of eye contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required. |
| If swallowed | : | If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting. |
| Most important symptoms and effects, both acute and delayed | : | Lack of coordination
Tremors
Dilatation of the pupil
Causes serious eye damage.
Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.
Corrosive to the respiratory tract. |
| Notes to physician | : | This material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic mectin exposure.
Toxicity can be minimized by early administration of chemical absorbents (e.g. activated charcoal).
If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged.
Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam |
|------------------------------|---|--|

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

- | | | |
|--|---|--|
| Unsuitable extinguishing media | : | Do not use a solid water stream as it may scatter and spread fire. |
| Specific hazards during fire fighting | : | As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
Flash back possible over considerable distance. |
| Hazardous combustion products | : | Carbon oxides
Nitrogen oxides (NOx) |
| Further information | : | Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray. |
| Special protective equipment for fire-fighters | : | Wear full protective clothing and self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Refer to protective measures listed in sections 7 and 8.
Keep people away from and upwind of spill/leak.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Remove all sources of ignition.
Pay attention to flashback. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water. |

SECTION 7. HANDLING AND STORAGE

- | | | |
|-----------------------------|---|--|
| Advice on safe handling | : | Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
Use only in an area containing flame proof equipment.
Take precautionary measures against static discharges.
For personal protection see section 8. |
| Conditions for safe storage | : | Keep containers tightly closed in a dry, cool and well- |

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

ventilated place.
Keep out of the reach of children.
Keep away from combustible material.
Keep in an area equipped with sprinklers.
Keep away from food, drink and animal feedingstuffs.
No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hexan-1-ol	111-27-3	TWA	40 ppm	US WEEL
distillates (petroleum), solvent-refined light paraffinic	64741-89-5	TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Mist)	5 mg/m ³	OSHA P0
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
emamectin benzoate (ISO)	155569-91-8	TWA	0.02 mg/m ³	Syngenta
2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m ³	Supplier
		TWA (Inhalable fraction and vapor)	2 mg/m ³	ACGIH
		TWA	10 mg/m ³	NIOSH REL
		TWA	10 mg/m ³	OSHA P0

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.
Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Tightly fitting safety goggles
Face-shield

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Remove and wash contaminated clothing before re-use.
Wear as appropriate:
Impervious clothing

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: yellowish to brown
Odor	: sweetish, oily
Odor Threshold	: No data available
pH	: 5.6 Concentration: 1 %w/v
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Flash point	:	144 °F / 62 °C
		Method: Seta closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	0.8988 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	536 °F / 280 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	16.9 mPa.s (104 °F / 40 °C)
		30.2 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Dust explosion class	:	No data available
Particle characteristics		
Particle size	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No decomposition if used as directed.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Incompatible materials : None known.
Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion
Inhalation
Skin contact
Eye contact

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : LD50 (Rat, female): 2,950 mg/kg
Acute inhalation toxicity : LC50 (Rat, male and female): 9.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Components:

hexan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): > 300 - 2,000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 1,000 - 2,000 mg/kg

emamectin benzoate (ISO):

Acute oral toxicity : LD50 (Rat, female): 53 mg/kg
Acute inhalation toxicity : LC50 (Rat, female): 0.663 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rat, male): 500 - 1,000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Result : No skin irritation

Components:

emamectin benzoate (ISO):

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Rabbit
Result : Risk of serious damage to eyes.

Components:

hexan-1-ol:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

emamectin benzoate (ISO):

Species : Rabbit
Result : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

No applicable information is available

Product:

Species : Guinea pig
Result : Does not cause skin sensitization.

Components:

emamectin benzoate (ISO):

Species : Guinea pig
Result : Does not cause skin sensitization.

Germ cell mutagenicity

No applicable information is available

Components:

emamectin benzoate (ISO):

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

No applicable information is available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Components:

emamectin benzoate (ISO):

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

IARC

Group 1: Carcinogenic to humans

distillates (petroleum), solvent-refined light paraffinic 64741-89-5
(Mineral oils, untreated or mildly treated)
(mineral oils, highly refined)

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen

distillates (petroleum), solvent-refined light paraffinic 64741-89-5
(Mineral Oils: Untreated and Mildly Treated)

Reproductive toxicity

No applicable information is available

Components:

emamectin benzoate (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

STOT-single exposure

Causes damage to organs (Nervous system).
Corrosive to the respiratory tract.

Components:

emamectin benzoate (ISO):

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

Remarks : A single exposure may damage the central and peripheral nervous systems.

STOT-repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Components:

emamectin benzoate (ISO):

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Aspiration toxicity

No applicable information is available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Components:

distillates (petroleum), solvent-refined light paraffinic:

May be fatal if swallowed and enters airways.

emamectin benzoate (ISO):

No aspiration toxicity classification

Endocrine disrupting properties

Components:

emamectin benzoate (ISO):

Assessment : Does not have endocrine disrupting properties.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0725 mg/l Exposure time: 48 h
---	---	---

Components:

emamectin benzoate (ISO):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.174 mg/l Exposure time: 96 h
------------------	---	---

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.001 mg/l Exposure time: 48 h
---	---	--

LC50 (Americamysis): 0.00004 mg/l Exposure time: 96 h
--

Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.0174 mg/l Exposure time: 72 h
----------------------------------	---	--

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0046 mg/l End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.012 mg/l Exposure time: 32 d
-------------------------------------	---	--

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Americamysis): 0.000018 mg/l Exposure time: 28 d
--	---	---

2,6-di-tert-butyl-p-cresol:

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 0.57 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 0.4 mg/l Exposure time: 72 h NOEC (Desmodesmus subspicatus (green algae)): 0.4 mg/l End point: Growth rate Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l Exposure time: 42 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.023 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50 (Bacteria): > 10,000 mg/l Exposure time: 3 h

Persistence and degradability

Components:

emamectin benzoate (ISO):

Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Degradation half life: 0.4 - 1.74 d Remarks: Product is not persistent.

2,6-di-tert-butyl-p-cresol:

Biodegradability	:	Result: Not readily biodegradable.
------------------	---	------------------------------------

Bioaccumulative potential

Components:

emamectin benzoate (ISO):

Bioaccumulation	:	Remarks: Does not bioaccumulate.
-----------------	---	----------------------------------

Mobility in soil

Components:

emamectin benzoate (ISO):

Distribution among environmental compartments	:	Remarks: immobile
Stability in soil	:	Dissipation time: 0.335 - 2.56 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Other adverse effects

Components:

hexan-1-ol:

Results of PBT and vPvB assessment : Not persistent, bioaccumulative, and toxic (PBT).

emamectin benzoate (ISO):

Results of PBT and vPvB assessment : Not persistent, bioaccumulative, and toxic (PBT).

Endocrine disrupting properties

Components:

emamectin benzoate (ISO):

Assessment : Does not have endocrine disrupting properties.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. This product will not be classified as a RCRA characteristic hazardous waste when discarded.
Contaminated packaging	: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EMAMECTIN BENZOATE)
Class	: 9
Packing group	: III
Labels	: 9
Environmentally hazardous	: yes
Remarks	: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (EMAMECTIN BENZOATE)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes
Remarks	:	This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EMAMECTIN BENZOATE)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	NA 1993
Proper shipping name	:	Combustible liquid, n.o.s. (HEXAN-1-OL)
Class	:	Combustible liquid.
Packing group	:	III
Labels	:	NONE
ERG Code	:	128
Marine pollutant	:	no
Remarks	:	Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger

Corrosive

Causes irreversible eye damage.

Do not get in eyes or on clothing.

Wear protective eyewear, goggles, or face shields.

Harmful if swallowed.

Harmful if absorbed through skin.

Avoid contact with skin.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Specific target organ toxicity (single or repeated exposure)
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

WARNING: This product can expose you to chemicals including distillates (petroleum), solvent-refined light paraffinic, which is/are known to the State of California to cause cancer, and methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

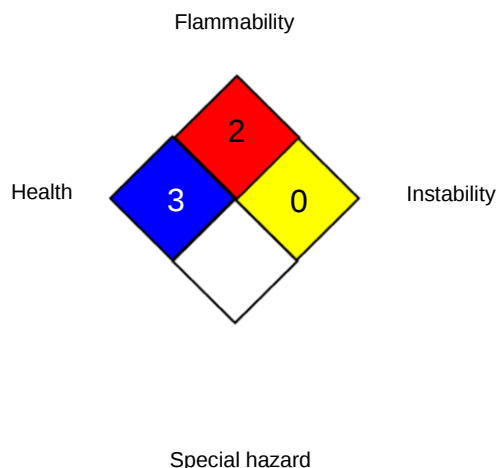
according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

NFPA 704:



HMIS® IV / CED:

HEALTH	*	4
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Syngenta	: Syngenta Occupational Exposure Limits
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	: 8-hour time weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average
Syngenta / TWA	: Time weighted average
US WEEL / TWA	: 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI -

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



DENIM INSECTICIDE

Version	Revision Date:	SDS Number:	Date of last issue: 08/23/2022
2.0	09/15/2026	S00054306511	Date of first issue: 08/23/2022

Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 09/15/2026

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN