

SECTION 1. PRODUCT AND COMPANY INFORMATION**Chemical Product**

Product Name: Nemasan
Product Description: EPA Registered nematicide
Chemical Description: Mixture of Plant Extract containing saponins (*Quillaja saponaria*) and Poly-D-Glucosamine
TSCA/CAS No.: This product is a mixture – there is no primary CAS No.

Manufactured exclusively for

Organisan Corporation
PO Box 2085
Carrollton, GA 30112

Emergency Phone Number

For Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call **CHEMTREC** Day or Night
1-800-424-9300 / +1 703-527-3887 CCN822209

SECTION 2. HAZARDS IDENTIFICATION**Classification in accordance with 29 CFR 1910.1200**

Skin Irritant, Category 3
Eye Irritant, Category 3
Skin Sensitizer, Category 3

GHS LABEL ELEMENTS**Symbol(s)****Signal Word**

WARNING!

Hazard Statement(s)

May be harmful if swallowed
May cause eye irritation
May cause skin irritation

Precautionary Statement(s)**Prevention**

Avoid breathing fume/ gas/ mist/ vapors/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

Response

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before re-use. If skin irritation or rash occurs, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue rinsing. If eye irritation persists, get medical advice/attention.

Disposal

Dispose of contents/containers in accordance with applicable federal, state and local regulations.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	PERCENT
68990-67-0	Quillaja Extract (derived from <i>Quillaja saponaria</i>)	Trade Secret
9012-76-4	Poly-D-Glucosamine	Trade Secret
	Other Ingredients	Trade Secret

Component Related Regulatory Information

This product is not regulated.

Component Information/Information on Non-Hazardous Components

This product is considered non-hazardous under 29 CFR 1910.1200 (Hazard Communication).

SECTION 4. FIRST AID MEASURES**Eye Contact:**

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. If eye irritation persists, get medical advice/attention.

Skin Contact:

For skin contact, wash immediately with soap and water. In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. If irritation persists get medical attention.

Ingestion:

If material is ingested, immediately contact a physician or poison control center. Give one to two glasses of water or milk. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If irritation persists get medical attention.

Note to Physician:

Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

General Fire Hazards

This product is an aqueous mixture, which will not burn.

Hazardous Combustion Products

Oxides of nitrogen and carbon may be formed.

Extinguishing Media

Use media appropriate to surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising From the Chemical

None known.

Fire Fighting Equipment/ Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus and impervious clothing.

NFPA Ratings:

Health: 1 Fire: 0 Reactivity: 1 (to certain metals)
Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate protective equipment and clothing during clean-up. Isolate area. Keep unnecessary personnel away.

Methods and Materials for Containment Clean-up

Stop the flow of material, if this is without risk. This product produces very slippery conditions when wet. Cover with sand, lime or soda ash. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways. Absorb spill with inert material such as: polypads or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal. Follow all Local, State and Federal regulations for disposal.

SECTION 7. HANDING AND STORAGE

Precautions for Safe Handling

Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

Conditions for Safe Storage

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not store in any metal containers. Do not reuse empty containers. Do not store this material in open or unlabeled containers.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Not available.

Appropriate Engineering Controls

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protection

Wear chemical goggles and face shield.

Skin Protection

Wear long-sleeved shirt, long pants, shoes plus socks and chemical-resistant gloves made of any waterproof material.

Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992).

General Protection

Eye wash fountain and emergency showers are recommended. An emergency spill response will necessitate the use of more stringent personal protective equipment.

PPE Pictograms:



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan to brown color	Odor:	Slight
Physical State:	Viscous liquid	pH:	3.0 - 5.0
Vapor Pressure:	Not available.	Vapor Density:	Not Available.
Boiling Point:	Not available.	Melting Point:	Not Available.
Solubility (H ₂ O):	Soluble.	Specific Gravity:	1.014 – 1.030
Flash Point:	Not available.	Flash Point Method:	Not available.
Auto Ignition:	Not available.	LFL:	Not available.
UFL:	Not available.	Viscosity:	Not available.
VOC Content:	Not available	Octanol/ H ₂ O Coeff.:	Not available.

SECTION 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION**Chemical Stability**

This is a stable material.

Conditions to Avoid

In concentrate form, avoid contact with extreme heat and prolonged contact with incompatible materials (such as metals).

Incompatibility

This product may be incompatible with some metals under conditions where prolonged contact has occurred. This product is incompatible with strong oxidizing agents and strong reducing agents.

Hazardous Decomposition

Upon decomposition, product may yield oxides of nitrogen and carbon.

Possibility of Hazardous Reactions

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

This product may be irritating to the eyes, respiratory system and skin. May be harmful if swallowed.

Information on Likely Routes of Exposure**Eyes Contact**

Contact with the eyes may cause irritation. Symptoms may include discomfort or pain and redness.

Skin Contact

This product may be irritating to the skin. Depending on the duration of contact, symptoms may include reddening, discomfort, irritation, and possible tissue damage. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.

Ingestion

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Inhalation

This product may cause irritation to the respiratory system. Symptoms may include headache, cough, thirst, throat irritation, shortness of breath, fever, sweating and pain in the limbs.

Chronic Effect

Not known.

Carcinogenicity

No carcinogenicity data available for this product. None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Mutagenicity

No data available for this product.

Teratogenicity

No data available for this product.

Neurological Effects

No data available for this product.

Other Toxicological Information

No additional information available.

Medical Conditions Aggravated by Exposure

May aggravate pre-existing skin and eye conditions.

HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0 Personal Protection: Safety glasses, impervious gloves, protective clothing

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available for this product.

Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

SECTION 14. TRANSPORTATION INFORMATION**US DOT Information**

Shipping Name: This product is not regulated as a hazardous material for transportation.

Canada Transportation of Dangerous Goods Information

Shipping Name: This product is not regulated as a hazardous material for transportation.

IMDG Information

Shipping Name: This product is not regulated as a hazardous material for transportation.

Other Shipping Description: Adhesives, Adjuvants, Spreaders or Stickers
NMFC Item 4612, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

SARA 311/312: Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

SARA TITLE III, Section 313 Toxic Chemicals: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SECTION 16. OTHER INFORMATION**SDS History****New SDS:** March 14, 2016**Revision 1:** December 22, 2016. Added EPA Establishment and product registration numbers**Revision 2:** May 2017 Added ChemTrec emergency contact information**Other Information:**

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.

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Nemasan is a product of Organisan Corporation

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