



ISSUING DATE 11-MAR-2021 REVISION DATE 11-MAR-2021 REVISION NUMBER 1

IDENTIFICATION

Product identifier

Product Name Chitoshield™

Other means of identification

CAS# (Active Ingredient) 9012-76-4

Recommended use of the chemical and restrictions on use

Recommended UseCommunicating the natural biostatic properties of Chitosan to hard or soft surfaces.

Restrictions on use

Details of the supplier of the safety data sheet

Supplier Identification Synergy Americas, Inc.

Address 127 Stream Road

Winterport, Maine

04496 USA

Telephone 207.944.3495

E-mail info@synergy-americas.com
Emergency telephone number 1-800-222-1222 (Poison Control)

Company Emergency Phone Number 207.944.3495

HAZARDS IDENTIFICATION

Classification

In accordance with OSHA Standards Code 29 CFR 1910.1200, this product contains no substances which, at their given concentration, are considered to be hazardous to health.

Appearance Clear, amber Liquid

Odor Slightly Vinegar-like

GHS Label elements, including precautionary statements

Hazard statements Not classified.

Other information

Not recognized as having any acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not applicable.

Mixture The product contains no substances which at their given concentration, are considered

to be hazardous to health.





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4 FIRST AID MEASURES

First aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical No information available.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limitsThis product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.





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Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required. Skin and body protection No special protective equipment required. Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Handle in accordance with good industrial hygiene and safety practice

General hygiene considerations 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Liquid **Appearance** Clear, amber Odor Vinegar-like

Color No information available

Odor Threshold Not applicable

Property	Values		Remarks Method
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На 6-7 Melting/freezing point No data available None known 99 °C / 211 °F Boiling point/boiling range Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability limit in Air None known

Upper flammability limit No data available Lower flammability limit No data available

None known Vapor pressure No data available Vapor density No data available None known

Relative density 1.01 Water solubility Liquid

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water Not Applicable No data available Autoignition temperature None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known

Dynamic viscosity

5-10 cps @ 25°C

Other Information

Explosive properties No information available. Oxidizing properties No information available. Softening point No information available. Molecular weight No information available. VOC content (%) No information available. Liquid density No information available. **Bulk density** No information available. Particle size No information available. Particle size distribution No information available.

STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions Hazardous polymerization Conditions to avoid Incompatible materials Hazardous decomposition products No information available. Stable under normal conditions. None under normal processing. Hazardous polymerization does not occur. None known based on information supplied. None known based on information supplied. Carbon oxides





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TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Product Information

InhalationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity

Not recognized as having any acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (yapor).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available. Respiratory or skin sensitization No information available. Germ cell mutagenicity No information available. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. No information available. Aspiration hazard

ECOLOGICAL INFORMATION

Persistence and degradability

Bioaccumulation

Mobility

Ecotoxicity

Other adverse effects

The environmental impact of this product has not been fully investigated.

No information available.

There is no data for this product.

No information available.

No information available.

DISPOSAL CONSIDERATIONS

Waste treatment methods

Contaminated packaging

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Do not reuse empty containers.

TRANSPORT INFORMATION

Proper shipping

Name hazard class

TDG MEX ICAO IATA

Proper shipping name Hazard class NOT REGULATED NON-REGULATED

N/A

Not regulated Not regulated Not regulated Not regulated

NON REGULATED

N/A





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IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated
ADR Not regulated
ADN Not regulated

REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS)

Persistent organic pollutants

Export notification requirements

Not applicable
Not applicable

International Inventories

TSCA

DSL/NDSL

EINECS/ELINCS

ENCS

KECL

PICCS

AICS

Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Acute health hazardNoChronic health hazardNoFire hazardNoSudden release of pressure hazardNoReactive hazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by state right-to-know.





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OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By

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Disclaimer

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

