



# SAFETY DATA SHEET

Issue Date March 8<sup>th</sup> 2015

Revision Date June 17<sup>th</sup> 2020

Version 3

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product identifier

Product name **Disinfect & Shield Surface Shield**  
Product number E-1010  
UN/ID No NA  
Product Code E-1010

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended Use: **Antimicrobial and Anti Viral Surface Treatment**

1.3. Details of the supplier of the safety data sheet Supplier Address:

Disinfect & Shield  
1616 Fountain View Drive #306  
Houston, TX 77057

1.4. Emergency telephone number

Emergency Telephone: +1 (346) 293-7265 (North America)

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not Hazardous

2.2. Label elements

None

### Signal Word:

Hazard Statements

None

Precautionary Statements/Response

None.

2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. <u>Mixtures</u>	<u>CAS #</u>	
Polyaminobiguanide	27083-27-8	0.3% to 0.8%
1-Octadecanamimium N,N dimethyl 3- trimethoxysilyl propyl chloride	27668-52-6	0.5% to 2.0%
Quaternary ammonium compounds, di-C8-10- alkyldimethyl, chlorides	68424-95-3	0.5% to 2.0%

Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlorides	68424-85-1	0.5% to 2.0%
Inert ingredients		90.0% to 98.0%

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**Inhalation**

Remove victim immediately from source of exposure.

**Ingestion**

None

**Skin contact**

None.

**Eye contact**

Immediately flush with plenty of water for up to 15 minutes.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation.**

None.

**Ingestion**

None.

**Skin contact**

None

**Eye contact**

None.

### 4.3. Indication of any immediate medical attention and special treatment needed.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards

None.

### 5.3. Advice for firefighters

Protective equipment for fire-fighters

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

## SECTION 6: HANDLING AND STORAGE

### 6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet.

### 6.2. Environmental precautions

None

### 6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### 6.4. Reference to other sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling,

Keep from Freezing above 0C /32F

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a well-ventilated place. Keep from freezing and direct sunlight.

### Storage Class

Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters Ingredient Comments

No exposure limits noted for ingredient(s)

### 8.2. Exposure controls

#### Protective equipment

#### Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

#### Respiratory equipment

None.

#### Hand protection

None.

#### Eye protection

None

#### Other Protection

Wear appropriate long sleeve clothing. **Hygiene measures**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Odor	Slight
Odor Threshold	Not determined
pH	4.0-7.0
Melting point/freezing point	0°C/0°C
Boiling point/boiling range	100 °C
Flash point	100 °C
Evaporation rate	Similar to water
Flammability (solid, gas)	N/A
Flammability Limits in Air	
Upper flammability limits	N/A
Lower flammability limit	N/A
Vapor pressure	23 mmHg
Vapor density	23gm/m <sup>3</sup>
Specific Gravity	1.00-1.20
Water solubility	Soluble in water
Solubility in other solvents	Not determined
Partition coefficient	Not determined

Autoignition temperature Not flammable  
Decomposition temperature Not determined

Other Information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Not available.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid freezing since water based. (will thaw)

### 10.5. Incompatible materials

Not available

### 10.6. Hazardous decomposition product

None.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Oral LD50

**LD 50 > 2000 -5000 mg/kg body weight**

**Classified under Category 5 –Non Classified**, as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14<sup>th</sup> Aug 2001).

#### Acute Dermal LD50

**LD 50 > 2000-5000 mg/kg body weight**

**Classified under Category 5 or Non Classified** as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14<sup>th</sup> Aug 2001).

#### Skin contact

**Negative** Findings base on Global Harmonized System for Classification and Labeling of Chemicals and OECD Harmonized Integrated Classification System for Human Health and Environmental Hazards of Chemical Substances and Mixtures (14<sup>th</sup> Aug 2001)

#### Acute Eye Irritation

**Not irritating to eyes** as per Global Harmonized System for Classification and Labeling of Chemicals (UN GHS 2013) and OECD Harmonized Integrated Classification for Human Health and Environmental Hazards of Chemicals Substances and Mixtures (14<sup>th</sup> Aug 2001).

#### Acute Inhalation Toxicity

**LC50: > 1.75 mg/L and is classified as “Unclassified** based on Globally Harmonized System for Classification and Labeling of Chemicals (GHS) and OECD Harmonized Integrated Classification System for Human Health and Environmental Hazards of Chemical Substances and Mixtures and EC classification.

#### Skin Sensitization contact

**Negative Findings** base on Global Harmonized Systems Classification and Labeling of Chemicals and OECD Harmonized Integrated Classifications System for Human Health and Environmental Hazards of Chemical Substances and Mixtures

#### Germ Cell Mutagenicity

Data is not available at this time

**Carcinogenicity**

Data is not available at this time. Not expected to be carcinogenic.

**Reproductive Toxicity**

Data is not available at this time. Not expected to have reproductive toxicity.

**STOT-single exposure**

Unclassified

**STOT-repeated exposure**

Unclassified

**Aspiration Hazard**

Data is not available at this time

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product contains beneficial bacteria and substances which are found in soils and on plant roots  
The product is safe at 100,000 ppm

**12.1. Toxicity**

**Acute Toxicity Daphnia magna OECD 202**

**Immobility**

Data is not available at this time

**Acute Toxicity Danio Rerio OECD 203**

Data is not available at this time

**Fresh water Algae Growth Desmodesmus subspicatus at 72 hours OECD 201**

Data is not available at this time

**12.2. Persistence and degradability**

**Degradability**

Data is not available at this time

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**

Data is not available at this time

**12.4. Mobility in soil**

Mobility: Data is not available at this time

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances

**12.6. Other adverse effects**

Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General information**

Factory Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority require

## SECTION 14: TRANSPORTATION INFORMATION

### DOT

Proper shipping name Non hazardous

UN/ID No

Hazard Class

Packing Group III

Special Provisions N/A

### TDG

UN/ID No

Proper shipping name

Hazard Class

Packing Group III

Special Provisions N/A

### IATA

UN/ID No

Proper shipping name

Hazard Class

Subsidiary hazard class N/A

Packing Group III

ERG Code N/A

### IMDG

UN/ID No

Proper shipping name

Hazard Class

Subsidiary hazard class N/A

Packing Group III 1

## SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or Mixture

### International Inventories

TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
ELINCS	Not Listed
ENCS	
IECSC	
KECL	
PICCS	
AICS	

### 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*

*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and 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 a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 37.

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Not Listed			

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Not listed	Not listed	Not listed	Not listed

**U.S. EPA Label Information**

**SECTION 16: OTHER INFORMATION**

GHS Codes

Hazard Statements In Full

USA National Fire Prevention and OSHA

<b><u>NFPA</u></b>	Health hazards	Flammability	Instability	Special Hazards
	0	0	0	
<b><u>HMIS</u></b>	Health hazards	Flammability	Physical hazards	Personal protection
	0	0	0	

**Issue Date**                      March 8th 2015  
**Revision Date**                September 17th 2015    September 1st 2016  
**Revision Note**                Additional information Toxicity/ Ecotoxicity info

**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.

End of Safety Data Sheet