

Creation date 30-Aug-2019

Revision date 30-Aug-2019

Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

- (a) Product name Sealant  
Product identifier PART A (LS-4410)
- (b) Other means of identification  
Product Code P777-627-00109
- (c) Recommended Use No information available
- (d) Supplier Address Nitto, Inc.  
 1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.  
 TEL.+1-732-901-7905 FAX.+1-732-364-4985
- (e) Emergency telephone number +1-732-901-7905 (Nitto, Inc.)

## 2. Hazards Identification

(a) GHS - Classification

Serious eye damage/eye irritation	Category 2
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(b) Label elements

Signal Word

**Warning**



Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary

(c) Other Hazards

May be harmful if swallowed  
 May be harmful in contact with skin

(d) Numerical measures of toxicity (such as acute toxicity estimates)

100.00% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

Product Classification

Mixture

Chemical name	CAS No.	Weight-%
Trade Secret	-	-

\* The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. First aid measures

(a) General information

If inhaled

No information available

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 Get medical advice/attention

Skin contact

Wash with soap and water

Ingestion

Rinse mouth  
 Do NOT induce vomiting  
 If swallowed, call a poison control center or physician immediately

**(b) Most important symptoms/effects** Causes eye irritation  
acute and delayed

**(c) Self-protection of the first aider** Use personal protective equipment as required  
**Note to physicians** Treat symptomatically

## 5. Fire-fighting measures

**(a) Fire extinguishing agent** Large Fire  
Water spray, fog or regular foam  
Small Fire  
Dry chemical, CO2, water spray or regular foam

**(b) Special exposure hazards in a fire** Containers may explode when heated  
**Hazardous combustion products** Hydrocarbons

**(c) Special protective equipment and precautions for firefighters** Use personal protective equipment as required  
Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.

LARGE FIRES: Dike fire-control water for later disposal

## 6. Accidental release measures

**(a) Personal Precautions** Do not touch or walk through spilled material  
Avoid contact with eyes and skin  
**Protective equipment and emergency procedures** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing  
Protective gloves and safety glasses recommended  
Prohibited unauthorized entry to area of leaks with rope

**(b) Environmental precautions** Should not be released into the environment

**(c) Methods and material for containment and cleaning up** Prevent further leakage or spillage if safe to do so  
Small spill : Soak up spill with woodchips, waste cloths, or sand, and contain in a sealable container. Large spill : Dike spill area with sand or dirt and contain material in a safe area. Pick up free liquid and place in a container. Absorb residual liquid with vermiculite, wipe with cloths, and place in a container.

## 7. Handling and Storage

**(a) Precautions for safe handling** Use personal protective equipment as required  
Avoid contact with skin, eyes or clothing

**(b) Storage conditions** Keep away from heat  
Protect from sunlight  
Keep container tightly closed and in a well-ventilated place

## 8. Exposure Controls/Personal Protection

**(a) Appropriate engineering controls** Eyewash stations  
Ensure adequate ventilation, especially in confined areas

**(b) Personal protective equipment [PPE]**  
**Respiratory Protection** No protective equipment is needed under normal use conditions  
**Eye protection** Protective glasses  
**Hand protection** Wear non-permeable gloves  
**Skin protection** Suitable protective clothing

Wear long sleeve work shirt

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<u>(a) Physical state</u>	liquid
<u>(b) Color</u>	cream
<u>(c) Odor</u>	odorless
<u>(d) pH</u>	No data available
<u>(e) Melting point / Freezing point</u>	No data available
<u>(f) Boiling point / boiling range</u>	No data available
<u>(g) Flash Point</u>	232C (449.6 F)
<u>(h) Evaporation rate</u>	No data available
<u>(i) Flammability (solid, gas)</u>	No data available
<u>(j) Upper flammability limit</u>	
<u>Upper</u>	No data available
<u>Lower</u>	No data available
<u>(k) Vapor pressure</u>	No data available
<u>(l) Vapor density</u>	
<u>(m) Specific gravity</u>	0.9 to 1.1
<u>(n) Solubility</u>	No information available
<u>(o) Partition Coefficient</u>	No data available
<u>(n-octanol/water)</u>	
<u>(p) Autoignition temperature</u>	No data available
<u>(q) Decomposition temperature</u>	No data available
<u>(r) Kinematic viscosity</u>	Not available
<u>(s) Molecular weight</u>	No data available

## 10. Stability and Reactivity

<u>(a) Reactivity</u>	No information available
<u>(b) Chemical stability</u>	Stable under normal conditions
<u>(c) Possibility of hazardous reactions</u>	Hazardous polymerization does not occur
<u>(d) Conditions to avoid</u>	No information available Heat, flames and sparks
<u>(e) Incompatible materials</u>	No information available
<u>(f) Hazardous decomposition products</u>	No information available

## 11. Toxicological Information

<u>(a) Information on likely routes of exposure</u>	
<u>Inhalation</u>	No information available
<u>Ingestion</u>	No information available
<u>Skin contact</u>	May cause skin irritation to sensitive individuals
<u>Eye contact</u>	Causes serious eye irritation
<u>(b) Most important symptoms/effects, acute and delayed</u>	No information available
<u>(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure</u>	
<u>Acute Toxicity</u>	No information available
<u>(d) Numerical measures of toxicity (such as acute toxicity estimates)</u>	100.00% of the mixture consists of ingredient(s) of unknown toxicity

## 12. Ecological Information

<u>(a) Ecotoxicity</u>	100.00% of the mixture consists of components(s) of unknown hazards to the aquatic environment
<u>(b) Mobility in soil</u>	No data available on finished product

**(c) Persistence and degradability** No information available

## 13. Disposal Considerations

### Waste treatment methods

#### Disposal of wastes

Should not be released into the environment  
Dispose of in accordance with federal, state and local regulations. The Customer is responsible for the proper disposal of any waste generated as a result of the use of the Product or of the Product itself, and is responsible for complying with all applicable laws, rules and regulations relating to the management, storage, treatment, shipment and disposal of such waste or Product ("Waste Management Practices"). "Product" includes anything sold by Nitto Denko Corporation and/or any affiliates or subsidiaries ("Company") to Customer. The Company is not responsible for any of the Customer's Waste Management Practices. As part of those practices, Customer must separate packaging from Product before disposal. Further, Customer should review and comply with this SDS prior to any such disposal.  
Customer shall hold harmless the Company, its agents, contractors, successors and assigns from any and all liability, claims, loss, damage, death or injury, including reasonable attorney's fees and costs, arising out of or relating to Customer's Waste Management Practices  
Dispose of in accordance with federal, state and local regulations  
See Disposal of Wastes

#### Contaminated packaging

## 14. Transport Information

### International regulations

#### IMDG

Not regulated

#### ICAO (air)

Not regulated

#### DOT(U.S. Department of Transportation) (HMTA)

Not regulated

#### TDG

Not regulated

## 15. Regulatory information

### US Federal Regulations

Not Applicable

### US State Regulations

#### California Proposition 65

Not Applicable  
This product does not contain any Proposition 65 chemicals

### REACH 7 Article 33 Article SVHC notification (> 0.1 wt. %)

None based on the current SVHC listing, as of the date of this SDS.

## 16. Other information

<u>NFPA</u>	Health Hazards 1	Flammability 1	Instability: 0	Physical and Chemical Properties -
<u>HMIS</u>	Health Hazards 1	Flammability 1	Physical Hazards 0	Personal protective equipment X

### Creation date

30-Aug-2019

### Revision date

30-Aug-2019

### Version

1

### Source Information

Raw material SDS  
LOLI(Chem ADVISOR) GHS classification data

### Disclaimer

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End of Safety Data Sheet

Creation date 30-Aug-2019

Revision date 30-Aug-2019

Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

(a) Product name Sealant  
Product identifier PART B (LS-4410)

(b) Other means of identification  
Product Code P777-627-00110

(c) Recommended Use No information available

(d) Supplier Address Nitto, Inc.  
 1990 Rutgers University Blvd. Lakewood, NJ08701, U.S.A.  
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### (a) GHS - Classification

Serious eye damage/eye irritation	Category 2
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### (b) Label elements

Signal Word

**Warning**



### Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Examination and treatment by a physician if necessary

### (c) Other Hazards

May be harmful if swallowed  
 May be harmful in contact with skin

### (d) Numerical measures of toxicity (such as acute toxicity estimates)

100.00% of the mixture consists of ingredient(s) of unknown toxicity

## 3. Composition/information on Ingredients

### Product Classification

### Mixture

Chemical name	CAS No.	Weight-%
C.I. Pigment Blue 15	-	0.5-1
Trade Secret	-	-

\* The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. First aid measures

### (a) General information

#### If inhaled

No information available

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 Get medical advice/attention

#### Skin contact

Wash with soap and water

#### Ingestion

Rinse mouth  
 Do NOT induce vomiting  
 If swallowed, call a poison control center or physician immediately

**(b) Most important symptoms/effects** Causes eye irritation  
acute and delayed

**(c) Self-protection of the first aider** Use personal protective equipment as required  
Note to physicians Treat symptomatically

## 5. Fire-fighting measures

**(a) Fire extinguishing agent** Large Fire  
 Water spray, fog or regular foam  
 Small Fire  
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**(b) Special exposure hazards in a fire** Containers may explode when heated  
Hazardous combustion products Hydrocarbons

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LARGE FIRES: Dike fire-control water for later disposal

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 Avoid contact with eyes and skin  
 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing  
Protective equipment and emergency procedures Protective gloves and safety glasses recommended  
 Prohibited unauthorized entry to area of leaks with rope

**(b) Environmental precautions** Should not be released into the environment

**(c) Methods and material for containment and cleaning up** Prevent further leakage or spillage if safe to do so  
 Small spill : Soak up spill with woodchips, waste cloths, or sand, and contain in a sealable container. Large spill : Dike spill area with sand or dirt, and contain material in a safe area. Pick up free liquid and place in a container. Absorb residual liquid with vermiculite, wipe with cloths, and place in a container.

## 7. Handling and Storage

**(a) Precautions for safe handling** Use personal protective equipment as required  
 Avoid contact with skin, eyes or clothing

**(b) Storage conditions** Keep away from heat  
 Protect from sunlight  
 Keep container tightly closed and in a well-ventilated place

## 8. Exposure Controls/Personal Protection

**(a) Control parameters**  
Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
C.I. Pigment Blue 15	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	-	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist

**(b) Appropriate engineering controls** Eyewash stations  
 Ensure adequate ventilation, especially in confined areas

**(c) Personal protective equipment [PPE]**

Respiratory Protection No protective equipment is needed under normal use conditions  
Eye protection Protective glasses  
Hand protection Wear non-permeable gloves

**Skin protection**

Suitable protective clothing  
Wear long sleeve work shirt

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b><u>(a) Physical state</u></b>	liquid
<b><u>(b) Color</u></b>	blue
<b><u>(c) Odor</u></b>	odorless
<b><u>(d) pH</u></b>	No data available
<b><u>(e) Melting point / Freezing point</u></b>	No data available
<b><u>(f) Boiling point / boiling range</u></b>	No data available
<b><u>(g) Flash Point</u></b>	232C (449.6 F)
<b><u>(h) Evaporation rate</u></b>	No data available
<b><u>(i) Flammability (solid, gas)</u></b>	No data available
<b><u>(j) Upper flammability limit</u></b>	
<b><u>Upper</u></b>	No data available
<b><u>Lower</u></b>	No data available
<b><u>(k) Vapor pressure</u></b>	No data available
<b><u>(l) Vapor density</u></b>	
<b><u>(m) Specific gravity</u></b>	0.9 to 1.1
<b><u>(n) Solubility</u></b>	No information available
<b><u>(o) Partition Coefficient</u></b>	No data available
<b><u>(n-octanol/water)</u></b>	
<b><u>(p) Autoignition temperature</u></b>	No data available
<b><u>(q) Decomposition temperature</u></b>	No data available
<b><u>(r) Kinematic viscosity</u></b>	Not available

## 10. Stability and Reactivity

<b><u>(a) Reactivity</u></b>	No information available
<b><u>(b) Chemical stability</u></b>	Stable under normal conditions
<b><u>(c) Possibility of hazardous reactions</u></b>	Hazardous polymerization does not occur
<b><u>(d) Conditions to avoid</u></b>	No information available Heat, flames and sparks
<b><u>(e) Incompatible materials</u></b>	No information available
<b><u>(f) Hazardous decomposition products</u></b>	No information available

## 11. Toxicological Information

<b><u>(a) Information on likely routes of exposure</u></b>	
<b><u>Inhalation</u></b>	No information available
<b><u>Ingestion</u></b>	No information available
<b><u>Skin contact</u></b>	May cause skin irritation to sensitive individuals
<b><u>Eye contact</u></b>	Causes serious eye irritation
<b><u>(b) Most important symptoms/effects, acute and delayed</u></b>	No information available
<b><u>(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure</u></b>	
<b><u>Acute Toxicity</u></b>	No information available
<b><u>(d) Numerical measures of toxicity (such as acute toxicity estimates)</u></b>	100.00% of the mixture consists of ingredient(s) of unknown toxicity

<b><u>Chemical name</u></b>	<b><u>Oral LD50 ;</u></b>	<b><u>Dermal LD50</u></b>	<b><u>Inhalation LC50 - 4 hour - vapor - mg/L</u></b>
C.I. Pigment Blue 15	> 10000 mg/kg ( Rat )	-	-

## 12. Ecological Information

(a) **Ecotoxicity** 100.00% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
C.I. Pigment Blue 15	-	100: 48 h Oryzias latipes mg/L LC50 static	-	-

(b) **Mobility in soil** No data available on finished product

(c) **Persistence and degradability** No information available

(d) **Bioaccumulation**

Chemical name	Partition Coefficient (n-octanol/water)
C.I. Pigment Blue 15	6.6

## 13. Disposal Considerations

### Waste treatment methods

#### Disposal of wastes

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Customer shall hold harmless the Company, its agents, contractors, successors and assigns from any and all liability, claims, loss, damage, death or injury, including reasonable attorney's fees and costs, arising out of or relating to Customer's Waste Management Practices

#### Contaminated packaging

Dispose of in accordance with federal, state and local regulations  
See Disposal of Wastes

Chemical name	California Hazardous Waste Status
C.I. Pigment Blue 15	Toxic

## 14. Transport Information

### International regulations

<b>IMDG</b>	Not regulated
<b>ICAO (air)</b>	Not regulated
<b>DOT(U.S. Department of Transportation) (HMTA)</b>	Not regulated
<b>TDG</b>	Not regulated

## 15. Regulatory information

**US Federal Regulations** Not Applicable

**CWA (Clean Water Act):** This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
C.I. Pigment Blue 15	-	X	-	-

**US State Regulations** Not Applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals



**REACH 7 Article 33 Article SVHC  
notification (> 0.1 wt. %)**

None based on the current SVHC listing, as of the date of this SDS.

**16. Other information**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 1	<b>Instability:</b> 0	<b>Physical and Chemical Properties</b> -
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 1	<b>Physical Hazards</b> 0	<b>Personal protective equipment</b> X

**Creation date**

30-Aug-2019

**Revision date**

30-Aug-2019

**Version**

1

**Source Information**

Raw material SDS

LOLI(Chem ADVISOR) GHS classification data

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**End of Safety Data Sheet**