

Material Safety Data Sheet

Novalis NFA-E510 Adhesive Part "A"

Complies with OSHA's Hazard Communication Standard CFR 1910.1200

I. Chemical Product and Company Identification

Material Identity

Product Code and Name: Novalis NFA-E510 Adhesive, Part "A"

Product Class: Adhesive

DOT Class: Not Regulated—Limited Quantity

Distributor: Novalis International LTD

55 West Beaver Creek Road
Unit #29

Richmond Hill, Ontario Canada L4B 1K5

Date Prepared: June 18, 2013

HMIS:

Health: 2

Flammability: 0

Reactivity: 1

Personal Protection: B

24 Hour Emergency: Chemtrec: 800-424-9300

Date Revised: New

II. Composition/Information on Hazardous Ingredients

<u>Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>	<u>CAS Number</u>
Propane, 2, 22-bis (2, 3 epoxypropoxy) phenyl-, polymers	NE	NE	45-55	25085-99-8
Dipropylene glycol diglycidyl ether	NE	NE	10-15	041638-13-5

III. Physical Data

Vapor Density (air = 1):	Not determined	Boiling Point:	Not determined
Density:	12.5 lbs/gal	Vapor Pressure:	Not determined
Solubility in Water:	None	Appearance and odor:	Off-white thin paste, mild epoxy-resin odor.
Evaporation Rate (butyl acetate =1):	Not determined	V.O.C.	< 10 g/L
% Solids:	96%		

IV. Fire and Explosion Hazards

Flash Point (Method Used): > 400 deg. F

Flammable Limits: Not determined

Flammability Classification: OSHA: None

DOT: Not regulated

Extinguishing Media: Carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible auto-ignition or explosion when exposed to extreme heat. Fog nozzles are preferred if water is used.

Unusual Fire and Explosion Hazards: Keep containers closed except when in use. Closed containers may explode when exposed to extreme heat. Do not use in vicinity of open flame or sparks. Extinguish all pilot lights and all sources of ignition.

V. Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and open flame

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Incompatibility (Materials to Avoid): Oxidizing materials

Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide and carbon dioxide, as well as organic compounds of unknown structure.

Hazardous Polymerization: Will not occur.

VI. Health Hazard Data

Effects of Exposure: Chronic: Prolonged or repeated skin exposure can cause mild skin irritation or allergic reaction.

Acute: Prolonged or repeated skin exposure can cause mild skin irritation. Mildly irritating to the eyes.

Emergency and First Aid Procedures: Eyes: Flush with water for 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water or waterless skin cleanser followed by soap and water. Remove contaminated clothing.

Get medical help if irritation persists. **Ingestion:** Seek medical attention. **Inhalation:** Remove the victim to fresh air.

Give artificial respiration if not breathing. Get medical attention.

VII. Precautions for Safe Handling and Use

Steps to be taken in case material is spilled or released: Scrape into containers for disposal.

Waste disposal method: Dispose of according to federal, state and local regulations. Can be incinerated in approved facility if not in closed containers.

Handling and Storage Precautions: Keep container tightly closed. Store in a cool dry place. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Transportation Data: See Section I

Other Precautions: KEEP OUT OF REACH OF CHILDREN!

VIII. Control Measures

Respiratory Protection: Use respiratory protection if vapor levels are at or above TLV Levels. (Use NIOSH approved respirator).

Ventilation: Use only in well ventilated areas.

Protective Gloves: Chemical resistant gloves

Eye Protection: Safety goggles

Hygienic Practices: Good general cleanliness and hygiene. Wash skin and hands after use.

Disclaimer: This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was obtained from tests performed by agencies other than Novalis, the company cannot guarantee its accuracy. The manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Data Sheet and the use of this product, whether used in combination with other products or singly.

Material Safety Data Sheet

Novalis NFA-E510 Adhesive Part "B"

Complies with OSHA's Hazard Communication Standard CFR 1910.1200

I. Chemical Product and Company Identification

Material Identity

Product Code and Name: Novalis NFA-E510 Adhesive, Part "B"

Product Class: Adhesive

DOT Class: Not Regulated—Limited Quantity

Supplier: Novalis International LTD

55 West Beaver Creek Road
Unit #29

Richmond Hill, Ontario Canada L4B 1K5

Date Prepared: June 18, , 2013

HMIS:

Health: 2

Flammability: 0

Reactivity: 1

Personal Protection: B

24 Hour Emergency: Chemtrec: 800-424-9300

Date Revised: New

II. Composition/Information on Hazardous Ingredients

<u>Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% less than</u>	<u>CAS Number</u>
Polyamide Resin	NE	NE	65-75	NE-Mixture

III. Physical Data

Vapor Density (air = 1):	Not determined	Boiling Point:	Not determined
Density:	8.53 lbs/gal	Vapor Pressure:	Not determined
Solubility in Water:	None	Appearance and odor:	Brown medium paste, with ammonia odor.
Evaporation Rate (butyl acetate =1):	Not determined	V.O.C.	< 10 g/L
% Solids:	94%		

IV. Fire and Explosion Hazards

Flash Point (Method Used): > 340 deg. F

Flammable Limits: Not determined

Flammability Classification: OSHA: None

DOT: Not regulated

Extinguishing Media: Carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: Use SCBA and full protective gear. Do not use direct water stream.

Unusual Fire and Explosion Hazards: None

V. Reactivity Data

Stability: Stable

Conditions to Avoid: Excessive Heat

Novalis NFA-E510 Adhesive Part "B"

Complies with OSHA's Hazard Communication Standard CFR 1910.1200

Incompatibility (Materials to Avoid): Oxidizing materials

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Nitrogen oxides and unidentified organic compounds may be formed during combustion.

Hazardous Polymerization: Will not occur.

VI. Health Hazard Data

Effects of Exposure: **Chronic:** liver and kidney effects.

Acute: **Inhalation:** May cause irritation of respiratory tract. **Ingestion:** May cause gastrointestinal distress or irritation. **Skin:** Exposure can cause irritation and may cause sensitization and allergic reaction. **Eyes:** Can cause irritation, redness and tearing.

Emergency and First Aid Procedures: **Eyes:** Wash with water for 15 minutes; contact physician. **Skin:** Flush with water and wash thoroughly with soap and water. Seek medical attention if irritation persists. Remove contaminated clothing. **Ingestion:** Do not induce vomiting. Seek medical attention. **Inhalation:** Remove to fresh air. Call physician if breathing is difficult.

VII. Precautions for Safe Handling and Use

Steps to be taken in case material is spilled or released: Scrape into containers for disposal.

Waste disposal method: Dispose of according to federal, state and local regulations. Can be incinerated in approved facility if not in closed containers.

Handling and Storage Precautions: Keep container tightly closed. Store in a cool dry place. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Transportation Data: See Section I

Other Precautions: KEEP OUT OF REACH OF CHILDREN!

VIII. Control Measures

Respiratory Protection: Use only in well ventilated areas. Wear NIOSH-approved vapor cartridge respirator if ventilation is poor or vapors exceed TLV.

Ventilation: Use only in well ventilated areas.

Protective Gloves: Chemical resistant gloves recommended

Eye Protection: Goggles recommended

Hygienic Practices: Good general cleanliness and hygiene. Wash skin and hands with soap and water after use.

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