

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011A Page #1

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Product Code: 101 Part A (Resin)
Product Name: NSP 101 Scratch Primer
Product Class: Modified Epoxy Resin with Isopropanol
CAS Number: None Assigned

NSP Specialty Products, P. O. Box 4690, Pinehurst, NC 28374- ChemTel 24hr US Emergency Number: 800-255-3924/Worldwide Emergency Number + 1 813-248-0585

SECTION II - INFORMATION ON INGREDIENTS

Ingredients	CAS#	Exposure Limits
Modified Epoxy Resin	Proprietary	None Assigned
N-Butyl Glycidyl Ether	2426-08-6	ACGIH TLV 25 ppm
Isopropanol > 95%	67-63-0	ACGIH TLV 400 ppm

SECTION III - HAZARDS IDENTIFICATION

*******EMERGENCY OVERVIEW*******

Flammable liquid with characteristic odor. Causes eye irritation. May cause minor skin irritation. Irritating to respiratory tract. High concentrations may cause headache and drowsiness. Slightly toxic if swallowed.

Potential Health Effects

EYE: Causes mild to moderate eye irritation, redness, stinging. Corneal injury may occur.

SKIN: Causes skin irritation with itching or local redness. Prolonged or repeated contact may aggravate dermatitis or cause drying of the skin.

INGESTION: Slightly toxic. May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or loss of consciousness may occur.

INHALATION: May cause nasal irritation with coughing and chest discomfort. Prolonged overexposure may cause central nervous system depression, dizziness, weakness, headache and drowsiness.

CHRONIC (CANCER INFORMATION):

None known.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011A Page #2
Product Code: 101 Part A (Resin)

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower lids. Get medical attention.

SKIN: Promptly wipe clean with paper or cloths and wash exposed area with soap and water. Remove and wash any contaminated clothing prior to use.

INGESTION: If 101 Part A is swallowed, immediately drink two large glasses of water and induce vomiting. Never give any liquids to an unconscious or convulsing person. If mixed product is swallowed (101 Part A and Part B), but do not induce vomiting and get immediate medical attention.

INHALATION: If ill effects occur, remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Get immediate medical attention.

SECTION V - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 53 Deg. F (12 Deg. C) Method: TCC

HAZARDOUS COMBUSTION PRODUCTS: Burning can produce carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

EXTINGUISHING MEDIA: Alcohol-type or all-purpose foam using manufacturer's instructions for large fires. Use carbon dioxide or dry chemical media for small fires.

FIRE FIGHTING INSTRUCTIONS: Use water spray to cool fire exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Do not turn on any ignition source until the area is determined to be free from explosion or fire hazard. Wear suitable protective equipment. Stop spill at the source, and take up remaining liquid with sand or other suitable absorbent material. Shovel into closed containers for proper disposal.

LARGE SPILL:

Do not turn on any ignition source until area is determined to be free from explosion or fire hazard. Wear suitable protective equipment. Dike area to prevent spreading and pump into salvage tank. Prevent runoff from entering into storm sewers and ditches, which could lead to natural waterways. Wear protective equipment during cleanup. Remaining liquid may be taken up with sand or other suitable absorbent material.

SECTION VII - HANDLING AND STORAGE

HANDLING/STORAGE:

Avoid personal contact. Never use welding or cutting torch on or near container (even empty due to residue) because product can ignite explosively. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited from distant sources. Vapors of this product may ignite by static sparks. Use proper grounding and bonding when material is being transferred. Any use of this product in elevated temperatures should be thoroughly evaluated for safe conditions.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011A Page #3
Product Code: 101 Part A (Resin)

SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS:

Mechanical ventilation is recommended. Special local ventilation may be needed where vapors are expected to escape.

RESPIRATORY PROTECTION:

NIOSH approved respirator if TLV is exceeded.

SKIN PROTECTION:

Chemical-resistant plastic or rubber gloves. Wear protective equipment as required to prevent wetting the skin or clothing.

EYE PROTECTION:

Chemical splash goggles.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 180 Deg. F (82.22 Deg. C) @ 760.00 mm Hg

MELTING POINT: Not applicable

VAPOR DENSITY: (Air = 1) 2.07

VAPOR PRESSURE: 33 mm Hg @ 68.00 Deg. F (20.00 Deg. C)

EVAPORATION RATE: (Butyl Acetate=1) 2.88

% VOLATILES: 20%

SOLUBILITY IN WATER: Moderately miscible

SPECIFIC GRAVITY: (H₂O=1) 1.05 @ 77.00 Deg. F (25 Deg. C)

ODOR: Characteristic of alcohol

APPEARANCE: Clear liquid

SECTION X - STABILITY AND REACTIVITY

CHEMICAL STABILITY: (CONDITIONS TO AVOID)

Heat, sparks, open flame, smoking, electric motors, pilot lights and other ignition sources.

INCOMPATIBILITY:

Strong oxidizers, halogens, strong inorganic acids, aldehydes and epoxy hardeners under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Incomplete combustion will generate poisonous carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

None currently known.

SECTION XII - ECOLOGICAL INFORMATION

None available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011A Page #4
Product Code: NSP 101 Part A (Resin)

SECTION XIV - TRANSPORT INFORMATION

Regulated. Proper Shipping Name: Paint (Contains Isopropanol) DOT Hazard Class 3, ID Number UN1263, Packing Group II, Hazard Label-Flammable Liquid.

SECTION XV - REGULATORY INFORMATION

OSHA:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313 LISTED INGREDIENTS:

This product does not contain substances which are subject to the reporting requirements of 40 CFR 372.

TSCA STATUS:

The ingredients of this product are on the TSCA Inventory.

SECTION XVI - OTHER INFORMATION

This information herein is given in good faith and is accurate to the best of NSP Specialty Products knowledge based on published MSDS from manufacturers, however no warranty, express or implied, is made as to the accuracy or completeness of these data and recommendations.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011B Page #1

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

Product Code: 101 Part B (Hardener)
Product Name: NSP 101 Sealer
Product Class: Modified Epoxy Hardener with Isopropanol
CAS Number: None Assigned

NSP Specialty Products, P. O. Box 4690, Pinehurst, NC 28374- ChemTel 24hr US Emergency Number: 800-255-3924/Worldwide Emergency Number + 1 813-248-0585

SECTION II - INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Exposure Limits</u>
Modified Cycloaliphatic Polyamine (Mixture)		None Assigned
Benzyl Alcohol	100-51-6	None Assigned
m-Xylylenediamine	1477-55-0	STEL 0.1 mg/m ³
Isopropanol > 95%	67-63-0	ACGIH TLV 400 ppm

SECTION III - HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW*****

Flammable amber liquid with characteristic odor. Causes severe eye irritation. Causes skin irritation. Irritating to respiratory tract. High concentrations may cause headache and drowsiness. Slightly toxic if swallowed. Avoid contact with eyes, skin or clothing.

Potential Health Effects

EYE: Causes severe eye irritation. Corneal injury may occur.

SKIN: Causes skin irritation with itching or local redness. Prolonged or repeated contact may cause allergic skin reaction and sensitization.

INGESTION: Substance is extremely harmful if swallowed. May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or loss of consciousness may occur.

INHALATION: May cause nasal irritation with coughing and chest discomfort. Prolonged overexposure may cause central nervous system depression, dizziness, weakness, headache and drowsiness.

CHRONIC (CANCER INFORMATION):

None known.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011B Page #2
Product Code: 101 Part B (Hardener)

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower lids. If physician is not available, continue flushing for an additional 15 minutes. Get immediate medical attention.

SKIN: Promptly wipe clean with paper or cloths and wash exposed area with soap and water for 15 minutes. Remove and wash any contaminated clothing prior to use.

INGESTION: If 101 Part B is swallowed, immediately drink 3-4 glasses of water but do not induce vomiting. If vomiting occurs, give fluids again. Never give any liquids to a unconscious or convulsing person. If mixed product is swallowed (101 Part A and Part B), do not induce vomiting and get immediate medical attention.

INHALATION: If ill effects occur, remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Get immediate medical attention.

SECTION V - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 53 Deg. F (12 Deg. C) Method: TCC

HAZARDOUS COMBUSTION PRODUCTS: Burning can produce carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

EXTINGUISHING MEDIA: Alcohol-type or all-purpose foam using manufacturer's instructions for large fires. Use carbon dioxide or dry chemical media for small fires.

FIRE FIGHTING INSTRUCTIONS: Use water spray to cool fire exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Do not turn on any ignition source until the area is determined to be free from explosion or fire hazard. Wear suitable protective equipment. Stop spill at the source, and take up remaining liquid with sand or other suitable absorbent material. Shovel into closed containers for proper disposal.

LARGE SPILL:

Do not turn on any ignition source until area is determined to be free from explosion or fire hazard. Wear suitable protective equipment. Dike area to prevent spreading and pump into salvage tank. Prevent runoff from entering into storm sewers and ditches that could lead to natural waterways. Wear protective equipment during cleanup. Remaining liquid may be taken up with sand or other suitable absorbent material.

SECTION VII - HANDLING AND STORAGE

HANDLING/STORAGE:

Avoid personal contact. Never use welding or cutting torch on or near container (even empty due to residue) because product can ignite explosively. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited from distant sources. Vapors of this product may ignite by static sparks. Use proper grounding and bonding when material is being transferred. Any use of this product in elevated temperatures should be thoroughly evaluated for safe conditions.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011B Page #3
Product Code: 101 Part B (Hardener)

SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS:

Mechanical ventilation is recommended. Special local ventilation may be needed where vapors are expected to escape.

RESPIRATORY PROTECTION:

NIOSH approved respirator if TLV is exceeded.

SKIN PROTECTION:

Chemical-resistant plastic or rubber gloves. Wear protective equipment as required to prevent wetting the skin or clothing.

EYE PROTECTION:

Chemical splash goggles or full face shield recommended.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 180 Deg. F (82.22 Deg. C) @ 760.00 mm Hg

MELTING POINT: Not applicable

VAPOR DENSITY: (Air = 1) 2.07

VAPOR PRESSURE: 33 mm Hg @ 68.00 Deg. F (20.00 Deg. C)

EVAPORATION RATE: (Butyl Acetate=1) 2.88

% VOLATILES: 20%

SOLUBILITY IN WATER: Moderately miscible

SPECIFIC GRAVITY: (H₂O=1) 1.00 @ 77.00 Deg. F (25 Deg. C)

ODOR: Characteristic of alcohol

APPEARANCE: Amber liquid

SECTION X - STABILITY AND REACTIVITY

CHEMICAL STABILITY: (CONDITIONS TO AVOID)

Heat, sparks, open flame, smoking, electric motors, pilot lights and other ignition sources.

INCOMPATIBILITY:

Strong oxidizers, halogens, strong inorganic acids, aldehydes and epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

Incomplete combustion will generate poisonous carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

None currently known.

SECTION XII - ECOLOGICAL INFORMATION

None available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

MATERIAL SAFETY DATA SHEET

Effective and Print Date: 7/1/11 MSDS #1012011B Page #4
Product Code: NSP 101 Part B (Hardener)

SECTION XIV - TRANSPORT INFORMATION

Regulated. Proper Shipping Name: Paint, (Contains Isopropanol)
DOT Hazard Class 3, ID Number UN 1263, Packing Group II, Hazard Label-Flammable Liquid.

SECTION XV - REGULATORY INFORMATION

OSHA:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313 LISTED INGREDIENTS:

This product does not contain substances that are subject to the reporting requirements of 40 CFR 372.

TSCA STATUS:

The ingredients of this product are on the TSCA Inventory.

SECTION XVI - OTHER INFORMATION

This information herein is given in good faith and is accurate to the best of NSP Specialty Products knowledge based on published MSDS from manufacturers, however no warranty, express or implied, is made as to the accuracy or completeness of these data and recommendations.