MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Number: 680041
Product Name: Decon Solution 1—1st Wash for Unknown Contaminants

Manufacturer:
NPS Corporation
3303 Spirit Way
Green Bay, WI 54304

Emergency Telephone Numbers:
CHEMTREC--Domestic (800)424-9300 24 hours
--International (202)483-7616 24 hours
Information (800) 558-5066 7:30am-4:30pm CDT M-F

Section 2. Composition/Information on Ingredients

CAS Registry #	Component
497-19-8	Sodium Carbonate, anhydrous
6834-92-0	Sodium Metasilicate
77-09-8	Phenolphthalien
7732-18-5	Water

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency Overview

Odorless, pink liquid. This material presents little or no hazard if spilled and exhibits no unusual fire hazard.

Potential Health Effects

Eye: May cause irritation.

Skin: May cause irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.

Inhalation: May cause irritation to the upper respiratory system.

Signs and Symptoms:

- Eyes: Redness, Tearing
- Skin: Redness
- Inhalation: Coughing, Shortness of breath
- Ingestion: Nausea, Vomiting, Diarrhea

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

Section 5. Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition Temperature: NA

NOTE: This material is non-combustible as supplied and does not support combustion.

Extinguishing Media: If the need exists, water spray, dry chemical foam, or carbon dioxide can be used.

Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used.

Section 6. Accidental Release Measures

Avoid breathing vapors. Avoid contact with skin and eyes. Contain the spill and collect the material using chemically resistant sorbent products. If this product is mixed with other materials, see Section 13.

Section 7. Handling and Storage

Store in at temperatures >32 °F in a well-ventilated area. Keep containers tightly closed.

NOTE: If this product is stored at temperatures >150 °F or at elevations above 5000 feet, gas may form, increasing the pressure within the container, causing the container to bulge. If bulging occurs, remove the container from the work area and slowly open the container to release the gas. Be sure to wear proper personal protective equipment.

Section 8. Exposure Controls/Personal Protection

Exposure Limits: There are no exposure limits established for any component of this product.

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses, goggles, or face shield
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: If vapors or mists are present, air purifying respirator with appropriate chemical cartridge or canister.

Adequate ventilation should be provided to limit the threat of inhalation.

Section 9. Physical and Chemical Properties

Appearance: Pink liquid
Odor: Odorless
Boiling Point: Not Tested
Vapor Pressure (mmHg): Not Tested
Vapor Density: Not Tested
Solubility in Water: Soluble
Specific Gravity (H_2O=1): 1.11
Freezing Point: Not Tested
pH: 12.1
Evaporation Rate (Butyl Acetate=1): Not Tested
% Vaporizable by volume (H_2O=100): 100

Section 10. Stability and Reactivity

Stable: Yes
Conditions to Avoid: None known
Incompatibility (Materials to Avoid): Reacts with strong acids and fluorine. This material is corrosive to aluminum, galvanized iron, zinc, and may generate hydrogen gas.

Hazardous Decomposition or Byproducts: Thermal decomposition produces carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information

No data available. See Section 15.

Section 13. Disposal Considerations

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

Section 14. Transport Information

DOT:

Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.
Hazard Class: 8
Packing Group: II
Identification Number: 3266

Section 15. Regulatory Information

TSCA Inventory Status: All components are listed on the TSCA list.
SARA Title III
Section 302 Extreme Hazardous Substance List: Not listed
Section 311/312 Hazard Classification:
Immediate (acute): Yes
Delayed (chronic): No
Fire: No
Sudden Release of Pressure: No
Reactive: No
Section 313 Toxic Chemicals: Not listed
USEPA CERCLA—Reportable Quantity (RQ): Not listed
RCRA Hazardous Waste: Listed D001
State/Int'l Right-to-Know Regulations: Canada's WHMIS: Sodium Carbonate 1%
Sodium Metasilicate 1%

Section 16. Other Information

Abbreviations:
CFR: Code of Federal Regulations
OSHA: Occupational Safety and Health Administration
MSDS: Material Safety Data Sheet
PEL: Permissible Exposure Limit
NA: Not Applicable
ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Value
NTP: National Toxicology Program

Abbreviations (cont.):

IARC: International Agency for Research on Cancer
RCRA: Resource Conservation and Recovery Act
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
USEPA: United States Environmental Protection Agency
CERCLA: Comprehensive Response, Compensation, and Liability Act
DOT: Department of Transportation
WHMIS: Workplace Hazardous Materials Information System
n.o.s.: Not Otherwise Specified
NFPA: National Fire Protection Association
HMIS: Hazardous Material Information System

NFPA Ratings:
Health: 3
Fire: 0
Reactivity: 1
Special Hazard: None

HMIS Ratings:
Health: 3
Flammability: 0
Reactivity: 1
Personal Protection: X

NOTE: This MSDS has been prepared only for the Decon Solution 1 (680041) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

The information accumulated herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, NPS Corporation cannot give guarantees regarding the information from sources, and expressly does not make any warranties, nor assumes any liability for its uses of this product.

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Number: 680042
Product Name: Decon Solution 2—2nd Wash for Unknown Contaminants and Etiological Materials

Manufacturer:
NPS Corporation
3303 Spirit Way
Green Bay, WI 54304

Emergency Telephone Numbers:
CHEMTREC--Domestic (800)424-9300 24 hours
--International (202)483-7616 24 hours
Information (800) 558-5066 7:30am-4:30pm CDT M-F

Section 2. Composition/Information on Ingredients

CAS Registry #	Component
7681-52-9	Sodium Hypochlorite
7732-18-5	Water

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency Overview

Bleach-like smelling yellowish liquid. This material is toxic to aquatic life; Contain spills and protect waterways and sewers. This material presents no unusual fire hazard.

Potential Health Effects

Eye: May cause slight to severe irritation.

Skin: May cause slight to severe irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.

Inhalation: May cause slight to severe irritation to the upper and lower respiratory system.

Signs and Symptoms:

- Eyes: Redness, Tearing, Possible burns
- Skin: Redness, Swelling, Possible burns
- Inhalation: Shortness of breath, Labored breathing
- Ingestion: Nausea, Vomiting, Abdominal pain, Diarrhea, and Possible tissue ulcerations

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

Section 5. Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition Temperature: NA

NOTE: This material is non-combustible as supplied and does not support combustion.

Extinguishing Media: If the need exists, water spray, dry chemical foam, or carbon dioxide can be used.

Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used.

Section 6. Accidental Release Measures

Avoid breathing vapors. Avoid contact with skin and eyes. This material is toxic to aquatic life; contain spills immediately and protect waterways and sewers. Collect the spill using chemically resistant sorbent products. If this product is mixed with other materials, see Section 13.

Section 7. Handling and Storage

Store upright in a well-ventilated area at temperatures >32 °F. Keep away from direct sunlight and excessive heat.

NOTE: If this product is stored at temperatures >150 °F or at elevations above 5000 feet, gas may form, increasing the pressure within the container, causing the container to bulge. If bulging occurs, remove the container from the work area and slowly open the container to release the gas. Be sure to wear proper personal protective equipment.

Section 8. Exposure Controls/Personal Protection

Exposure Limits: There are no exposure limits established for any component of this product.
Chlorine Odor Threshold is 1.7 mg/M^3.

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses, goggles, or face shield
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: If vapors or mists are present, air purifying respirator with appropriate chemical cartridge or canister.

Adequate ventilation should be provided to limit the threat of inhalation.

Section 9. Physical and Chemical Properties

Appearance: Yellowish liquid
Odor: Chlorine (bleach-like) odor
Boiling Point: Not Tested
Vapor Pressure (mmHg): 13.5
Vapor Density: Not Tested
Solubility in Water: Soluble
Specific Gravity (H_2O=1): 1.10
Freezing Point: 16 °F
pH: 11.5
Evaporation Rate (Butyl Acetate=1): >1
% Vaporizable by volume (H_2O=100): 100
% Weight of Chlorine: 7.2

Section 10. Stability and Reactivity

Stable: Yes

Conditions to Avoid: This material is a strong oxidizer and contact with combustibles may promote combustion. Acids and heat accelerate decomposition.

Incompatibility (Materials to Avoid): Acids, ammonia, amines, cyanides, chlorinated isocyanurates, combustibles, detergents, reducing agents, and oxidizable materials. This product is corrosive to metals.

Hazardous Decomposition or Byproducts: Contact with acids releases toxic chlorine gas. Natural decomposition produces oxygen. Thermal decomposition may produce hydrochloric acid.

Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information

This material is toxic to aquatic life.

Section 13. Disposal Considerations

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

Section 14. Transport Information

DOT:

- Proper Shipping Name: Hypochlorite Solution
- Hazard Class: 8
- Packing Group: III
- Identification Number: 1791

Section 15. Regulatory Information

TSCA Inventory Status: All components are listed on the TSCA list.

SARA Title III

- Section 302 Extreme Hazardous Substance List: Not listed
- Section 311/312 Hazard Classification:
  - Immediate (acute): Yes
  - Delayed (chronic): No
  - Fire: No
  - Sudden Release of Pressure: No
  - Reactive: No
- Section 313 Toxic Chemicals: Not listed

USEPA CERCLA—Reportable Quantity (RQ): Listed—Sodium Hypochlorite—100 lbs

RCRA Hazardous Waste: Not listed

State/Int'l Right-to-Know Regulations: Canada's WHMIS: Sodium Hypochlorite 1%

USEPA: This product may not be used for disinfection or sanitizing without prior approval.

Section 16. Other Information

Abbreviations:

CFR: Code of Federal Regulations
OSHA: Occupational Safety and Health Administration
MSDS: Material Safety Data Sheet
PEL: Permissible Exposure Limit NA: Not Applicable
ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Value
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
RCRA: Resource Conservation and Recovery Act
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
USEPA: United States Environmental Protection Agency
CERCLA: Comprehensive Response, Compensation, and Liability Act
DOT: Department of Transportation
WHMIS: Workplace Hazardous Materials Information System
NFPA: National Fire Protection Association
HMIS: Hazardous Material Information System

NFPA Ratings:
Health: 2
Fire: 0
Reactivity: 1
Special Hazard: None

HMIS Ratings:
Health: 2
Flammability: 0
Reactivity: 1
Personal Protection: X

NOTE: This MSDS has been prepared only for the Decon Solution 2 (680042) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Number: 680043
Product Name: Decon Solution 3—3rd Wash for Unknown Contaminants and General Purpose Rinse

Manufacturer:
NPS Corporation
3303 Spirit Way
Green Bay, WI 54304

Emergency Telephone Numbers:
CHEMTREC--Domestic (800)424-9300 24 hours
--International (202)483-7616 24 hours
Information (800) 558-5066 7:30am-4:30pm CDT M-F

Section 2. Composition/Information on Ingredients

CAS Registry #	Component
6834-92-0	Sodium Metasilicate
72-48-0	Alizarin
7732-18-5	Water

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency Overview

Odorless, purple liquid. This material presents little or no hazard if spilled and presents no unusual fire hazard.

Potential Health Effects

Eye: May cause slight to severe irritation.

Skin: May cause slight to severe irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.

Inhalation: May cause irritation to the upper respiratory system.

Signs and Symptoms:

- Eyes: Redness, Tearing, Possible burns
- Skin: Redness, Swelling, Possible burns
- Inhalation: Coughing, Shortness of breath
- Ingestion: Nausea, Vomiting, Diarrhea

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

Section 5. Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition Temperature: NA

NOTE: This material is non-combustible as supplied and does not support combustion.

Extinguishing Media: If the need exists, water spray, dry chemical foam, or carbon dioxide can be used.
Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used.

Section 6. Accidental Release Measures

Avoid breathing vapors. Avoid contact with skin and eyes. Contain the spill and collect the material using chemically resistant sorbent products. If this product is mixed with other materials, see Section 13.

Section 7. Handling and Storage

Store at temperatures >32 °F in a well-ventilated area. Keep container tightly closed.

NOTE: If this product is stored at temperatures >150 °F or at elevations above 5000 feet, gas may form, increasing the pressure within the container, causing the container to bulge. If bulging occurs, remove the container from the work area and slowly open the container to release the gas. Be sure to wear proper personal protective equipment.

Section 8. Exposure Controls/Personal Protection

Exposure Limits: There are no exposure limits established for any component of this product.

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses, goggles, or face shield
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: If vapors or mists are present, air purifying respirator with appropriate chemical cartridge or canister.

Adequate ventilation should be provided to limit the threat of inhalation.

Section 9. Physical and Chemical Properties

Appearance: Purple liquid
Odor: Odorless
Boiling Point: Not Tested
Vapor Pressure (mmHg): Not Tested
Vapor Density: Not Tested
Solubility in Water: Soluble
Specific Gravity (H_2O=1): 1.11
Freezing Point: Not Tested
pH: 12.1
Evaporation Rate (Butyl Acetate=1): Not Tested
% Vaporizable by volume (H_2O=100): 100

Section 10. Stability and Reactivity

Stable: Yes
Conditions to Avoid: None known
Incompatibility (Materials to Avoid): Reacts with strong acids and fluorine. This material is corrosive to aluminum, galvanized iron, zinc, and may generate flammable hydrogen gas.

Hazardous Decomposition or Byproducts: Thermal decomposition produces carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information

No data available. See Section 15.

Section 13. Disposal Considerations

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

Section 14. Transport Information

DOT:

Proper Shipping Name: Corrosive liquids, basic, inorganic, n.o.s.
Hazard Class: 8
Packing Group: II
Identification Number: 3266

Section 15. Regulatory Information

TSCA Inventory Status: All components are listed on the TSCA list.
SARA Title III
Section 302 Extreme Hazardous Substance List: Not listed
Section 311/312 Hazard Classification:
Immediate (acute): Yes
Delayed (chronic): No
Fire: No
Sudden Release of Pressure: No
Reactive: No
Section 313 Toxic Chemicals: Not listed
USEPA CERCLA—Reportable Quantity (RQ): Not listed
RCRA Hazardous Waste: Not listed
State/Int'l Right-to-Know Regulations: Canada's WHMIS: Sodium Metasilicate 1%

Section 16. Other Information

Abbreviations:
CFR: Code of Federal Regulations
OSHA: Occupational Safety and Health Administration
MSDS: Material Safety Data Sheet
PEL: Permissible Exposure Limit
NA: Not Applicable
ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Value
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer

Abbreviations (cont.):

RCRA: Resource Conservation and Recovery Act
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
USEPA: United States Environmental Protection Agency
CERCLA: Comprehensive Response, Compensation, and Liability Act
DOT: Department of Transportation
WHMIS: Workplace Hazardous Materials Information System
n.o.s.: Not Otherwise Specified
NFPA: National Fire Protection Association
HMIS: Hazardous Material Information System

NFPA Ratings:

Health: 3
Fire: 0
Reactivity: 1
Special Hazard: None

HMIS Ratings:

Health: 3
Flammability: 0
Reactivity: 1
Personal Protection: X

NOTE: This MSDS has been prepared only for the Decon Solution 3 (680043) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Number: 680044
Product Name: Decon Solution 4—for Basic or Caustic Contaminants

Manufacturer:
NPS Corporation
3303 Spirit Way
Green Bay, WI 54304

Emergency Telephone Numbers:
CHEMTREC--Domestic (800)424-9300 24 hours
--International (202)483-7616 24 hours
Information (800) 558-5066 7:30am-4:30pm CDT M-F

Section 2. Composition/Information on Ingredients

CAS Registry #	Component
7647-01-0	Hydrochloric Acid
493-52-7	Methyl Red
7732-18-5	Water

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency Overview
Red liquid with a pungent odor. This material presents no unusual fire hazard

Potential Health Effects

Eye: May cause slight to severe irritation.

Skin: May cause slight to severe irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.

Inhalation: May cause irritation to the upper respiratory system.

Signs and Symptoms:

- Eyes: Redness, Tearing, Possible burns
- Skin: Redness, Swelling, Possible burns
- Inhalation: Damage to the nose, throat, and lung tissue, Headache, Nausea, and Drowsiness
- Ingestion: Abdominal discomfort, Nausea, Diarrhea

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

Section 5. Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition Temperature: NA

NOTE: This material is non-combustible as supplied and does not support combustion.

Extinguishing Media: If the need exists, water spray, dry chemical foam, or carbon dioxide can be used.

Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used.

Section 6. Accidental Release Measures

Avoid breathing vapors. Avoid contact with skin and eyes. Contain the spill and collect the material using chemically resistant sorbent products. If this product is mixed with other materials, see Section 13.

Section 7. Handling and Storage

Avoid high heat and freezing conditions. Keep container tightly closed in a well-ventilated area.

NOTE: If this product is stored at temperatures >150 °F or at elevations above 5000 feet, gas may form, increasing the pressure within the container, causing the container to bulge. If bulging occurs, remove the container from the work area and slowly open the container to release the gas. Be sure to wear proper personal protective equipment.

Section 8. Exposure Controls/Personal Protection

Exposure Limits: OSHA PEL is 5 ppm.
ACGIH TLV is 7 mg/M^3.

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses, goggles, or face shield
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: If vapors or mists are present, air purifying respirator with appropriate chemical cartridge or canister.

Adequate ventilation should be provided to limit the threat of inhalation.

Section 9. Physical and Chemical Properties

Appearance: Red liquid
Odor: Pungent odor
Boiling Point: 131 °F
Vapor Pressure (mmHg): 7.9 @ 68 °F
Vapor Density: 1.3
Solubility in Water: Soluble
Specific Gravity (H_2O=1): 1.16
Freezing Point: Not Tested
pH: 2.0
Evaporation Rate (Butyl Acetate=1): Not Tested
% Vaporizable by volume (H_2O=100): 100

Section 10. Stability and Reactivity

Stable: Yes
Conditions to Avoid: See Incompatibility

Incompatibility (Materials to Avoid): This material may react with most active metals to produce flammable hydrogen gas and heat. Heat is also generated in reactions with alkalis. Mixing this material with strong oxidizers may produce toxic chlorine gas. May react with cyanide to produce toxic hydrogen cyanide. May react with sulfides to produce toxic hydrogen sulfide. Combination with fomaldehyde can produce bischloromethyl ether (known carcinogen).

Hazardous Decomposition or Byproducts: See Incompatibility

Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information

No data available. See Section 15.

Section 13. Disposal Considerations

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

Section 14. Transport Information

DOT:

Proper Shipping Name: Hydrochloric Acid Solution
Hazard Class: 8
Packing Group: III
Identification Number: 1789

Section 15. Regulatory Information

TSCA Inventory Status: All components are listed on the TSCA list.

SARA Title III

Section 302 Extreme Hazardous Substance List: Listed as Hydrogen Chloride

Section 311/312 Hazard Classification:

Immediate (acute): Yes
Delayed (chronic): Yes
Fire: No
Sudden Release of Pressure: No
Reactive: No

Section 313 Toxic Chemicals: Listed—Hydrochloric Acid 1%

USEPA CERCLA—Reportable Quantity (RQ): Listed—Hydrochloric Acid 5000 lbs

RCRA Hazardous Waste: Not listed

State/Int'l Right-to-Know Regulations: Canada's WHMIS: Hydrochloric Acid 1%

Section 16. Other Information

Abbreviations:

CFR: Code of Federal Regulations
OSHA: Occupational Safety and Health Administration
MSDS: Material Safety Data Sheet
PEL: Permissible Exposure Limit

Abbreviations (cont.):

NA: Not Applicable
ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Value
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
RCRA: Resource Conservation and Recovery Act
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
USEPA: United States Environmental Protection Agency
CERCLA: Comprehensive Response, Compensation, and Liability Act
DOT: Department of Transportation
WHMIS: Workplace Hazardous Materials Information System
n.o.s.: Not Otherwise Specified
ppm: Parts per Million
NFPA: National Fire Protection Association
HMIS: Hazardous Material Information System

NFPA Ratings:
Health: 3
Fire: 0
Reactivity: 0
Special Hazard: None

HMIS Ratings:
Health: 3
Flammability: 0
Reactivity: 0
Personal Protection: X

NOTE: This MSDS has been prepared only for the Decon Solution 4 (680044) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

The information accumulated herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, NPS Corporation cannot give guarantees regarding the information from sources, and expressly does not make any warranties, nor assumes any liability for its uses of this product.

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Number: 680045
Product Name: Decon Solution 5—for Final Wash Down

Manufacturer:
NPS Corporation
3303 Spirit Way
Green Bay, WI 54304

Emergency Telephone Numbers:
CHEMTREC--Domestic (800)424-9300 24 hours
--International (202)483-7616 24 hours
Information (800) 558-5066 7:30am-4:30pm CDT M-F

Section 2. Composition/Information on Ingredients

CAS Registry #	Component
-- NA --	Proprietary Ingredient
7732-18-5	Water

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

Section 3. Hazards Identification

Emergency Overview

Green liquid with a slight medicinal odor. This material presents little or no hazard if spilled and exhibits no unusual fire hazard.

Potential Health Effects

Eye: May cause irritation.

Skin: May cause irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.

Inhalation: May cause irritation to the upper respiratory system.

Signs and Symptoms:

- Eyes: Redness
- Skin: Redness
- Inhalation: Discomfort of the nose, and throat
- Ingestion: Abdominal discomfort, Nausea, Diarrhea

Section 4. First Aid Measures

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

Section 5. Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition Temperature: NA

NOTE: This material is non-combustible as supplied and does not support combustion.

Extinguishing Media: If the need exists, water spray, dry chemical foam, or carbon dioxide can be used.

Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used.

Section 6. Accidental Release Measures

Contain the spill and collect the material using chemically resistant sorbent products. If this product is mixed with other materials, see Section 13.

Section 7. Handling and Storage

Avoid high heat and freezing conditions. Keep container tightly closed in a well-ventilated area.

NOTE: If this product is stored at temperatures >150 °F or at elevations above 5000 feet, gas may form, increasing the pressure within the container, causing the container to bulge. If bulging occurs, remove the container from the work area and slowly open the container to release the gas. Be sure to wear proper personal protective equipment.

Section 8. Exposure Controls/Personal Protection

Exposure Limits: There are no exposure limits established for any component of this product.

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses, goggles, or face shield
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: If vapors or mists are present, air purifying respirator with appropriate chemical cartridge or canister.

Adequate ventilation should be provided to limit the threat of inhalation.

Section 9. Physical and Chemical Properties

Appearance: Green liquid
Odor: Slight medicinal odor
Boiling Point: 212 °F
Vapor Pressure (mmHg): Not Tested
Vapor Density: Not Tested
Solubility in Water: Soluble
Specific Gravity (H_2O=1): 1.03
Freezing Point: 32 °F
pH: 7.8
Evaporation Rate (Butyl Acetate=1): <1
% Vaporizable by volume (H_2O=100): 100

Section 10. Stability and Reactivity

Stable: Yes
Conditions to Avoid: Freezing and excessive heat
Incompatibility (Materials to Avoid): None known
Hazardous Decomposition or Byproducts: None known
Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

This product is not listed by NTP or IARC. See Section 15.

Section 12. Ecological Information

No data available. See Section 15.

Section 13. Disposal Considerations

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

Section 14. Transport Information

This product is not a DOT Hazardous Material and is not regulated for all shipping purposes.

Section 15. Regulatory Information

TSCA Inventory Status: All components are listed on the TSCA list.
SARA Title III
- Section 302 Extreme Hazardous Substance List: Not listed
- Section 311/312 Hazard Classification:
  - Immediate (acute): No
  - Delayed (chronic): No
  - Fire: No
  - Sudden Release of Pressure: No
  - Reactive: No
- Section 313 Toxic Chemicals: Not listed

USEPA CERCLA—Reportable Quantity (RQ): Not listed
RCRA Hazardous Waste: Not listed
State/Int'l Right-to-Know Regulations: Not listed

Section 16. Other Information

Abbreviations:
- CFR: Code of Federal Regulations
- OSHA: Occupational Safety and Health Administration
- MSDS: Material Safety Data Sheet
- PEL: Permissible Exposure Limit
- NA: Not Applicable
- ACGIH: American Conference of Governmental Industrial Hygienists
- TLV: Threshold Limit Value
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- RCRA: Resource Conservation and Recovery Act
- TSCA: Toxic Substances Control Act
- SARA: Superfund Amendments and Reauthorization Act
- USEPA: United States Environmental Protection Agency
- CERCLA: Comprehensive Response, Compensation, and Liability Act
- DOT: Department of Transportation

Abbreviations (cont.):
NFPA: National Fire Protection Association
HMIS: Hazardous Material Information System

NFPA Ratings:
Health: 0
Fire: 0
Reactivity: 0
Special Hazard: None

HMIS Ratings:
Health: 0
Flammability: 0
Reactivity: 0
Personal Protection: X

NOTE: This MSDS has been prepared only for the Decon Solution 5 (680045) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

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