

Andpak, Inc.
Sur-Prep AP-1 Part A
Material Safety Data Sheet

Section: 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Sur-Prep AP-1 Part A **For Additional Product Information:** 1 (800) 648-2661

Manufacturer: Andpak, Inc.
 400 Jarvis Drive
 Morgan Hill, CA 95037 **In Emergency:** 1 (800) 424-9300

Section: 2 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

FOR EXPOSURE LIMITS SEE SECTION 8
 FOR OTHER TOXICOLOGICAL INFORMATION SEE SECTION 11

HAZARDOUS INGREDIENTS

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	65-90%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
Zirconium Tetrapropanolate	23519-77-9	10-30%	Not Hazardous	Not Determined	Not Determined	Not Determined	No

Section: 3 HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

Inhalation, ingestion, or skin contact with propyl alcohol may cause nonspecific effects such as headache, nausea, and weakness; and central nervous system depression with dizziness, confusion, lack of coordination, drowsiness, or unconsciousness.

HMIS RATINGS:

Health: 2
 Flammability: 3
 Reactivity: 0
 Protective Equipment: E

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Section: 4 FIRST AID MEASURES

EYES: May cause eye injury that will persist for several days. Flush immediately with water for 15 minutes and take to physician.

SKIN: Wash affected area and consult a physician if irritation persists.

INGESTION: If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Remove from exposure and restore breathing. Give oxygen if needed. Seek medical attention.

Section: 5 FIRE AND EXPLOSION HAZARDS

FLAMMABILITY DATA:

FLAMMABLE/COMBUSTIBLE/PYROPHORIC: Flammable

FLASH POINT AND METHOD: 75°F PMCC for Part A
86°F PMCC for Part A & B mixed

AUTOIGNITION TEMPERATURE: Not established

FLAMMABLE LIMITS AT NORMAL TEMPERATURE AND PRESSURE (PERCENT VOLUME IN AIR):

LEL: 2.1% **UEL:** 13.5%

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: Not Sensitive

SENSITIVITY TO STATIC DISCHARGE: Not Sensitive

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog

FIRE FIGHTING TECHNIQUES AND COMMENTS: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exists. Water spray can be used to cool containers.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide

Section: 6 ACCIDENTAL SPILL/RELEASE INFORMATION

FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300.

REPORTABLE QUANTITY: Not Applicable

SPILL MITIGATION PROCEDURES:

Stop source of spill as soon as possible and notify appropriate personnel. Berm around spill area to prevent spill from spreading. Ventilate area. Do not flush into sewers.

AIR RELEASE:

Vapors may be suppressed by use of water fog or spray. Contain all liquid for treatment

WATER RELEASE:

Contain liquid for treatment.

LAND SPILL:

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Create a trench to contain materials. Spilled materials may be contained using sand, clay, earth or a commercial absorbent. Do not place materials back in their original containers.

SPILL RESIDUES:

Dispose of per guidelines under section 13, DISPOSAL CONSIDERATIONS.

PERSONNEL PROTECTION FOR EMERGENCY SPILL AND FIRE FIGHTING SITUATIONS:

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to gloves, apron, and safety glasses.

Section: 7 HANDLING AND STORAGE
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DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES WASH OFF WITH WATER.

Grounding of containers is recommended before material transfer.

STORAGE CONDITIONS:

Store in a cool, dry, well-ventilated place.

STORE AT TEMPERATURES BELOW 120°F. DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAMES. AVOID BREATHING VAPORS. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS AND OTHER CONFINED AREAS.

PRODUCT STABILITY AND COMPATIBILITY:

SHELF LIFE LIMITATIONS: To be determined

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Sulfuric acid, oxidizing agents such as hydrogen peroxide, nitric acid, perchloric acid, and chromium trioxide.

INCOMPATIBLE MATERIALS FOR PACKAGING: None known

Section: 8 PREVENTIVE MEASURES

PERSONAL PROTECTION FOR ROUTINE USE OF THIS PRODUCT:

RESPIRATORY PROTECTION: When spraying, use an organic vapor cartridge or air supplied respirator that insures exposure level remains below exposure limits unless local exhaust is sufficient. Refer to NIOSH publication No. 89-105 and NIOSH No. 87-116. See OSHA requirement under 29 CFR 1910.1025 and 29 CFR 1910.134.

SKIN AND EYE PROTECTIVE EQUIPMENT: Impervious gloves are recommended to prevent skin contact. Safety glasses to prevent eye contact are recommended.

ENGINEERING CONTROLS

VENTILATION: Local or mechanical to keep Section II ingredients below their exposure limits.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: None required

PROTECTIVE CLOTHING TYPE: (This includes: gloves, boots, apron, protective suit):

Impervious gloves, safety glasses

WASTE DISPOSAL:

Spilled material collected in absorbent material should be transferred to steel disposal or recovery drums. If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D. If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

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Section: 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE(gas, liquid, solid): Liquid
APPEARANCE: Clear and slight yellow color
ODOR: Alcohol odor
FREEZING POINT: Not Determined
BOILING RANGE: Not Determined
DECOMPOSITION TEMPERATURE: Not Determined
SPECIFIC GRAVITY Part A: 0.87
SPECIFIC GRAVITY Part A&B: 0.88
BULK DENSITY: 7.3 lbs/gal @ 70 Deg F
pH @ 25 Deg C: Not Applicable
VAPOR PRESSURE @ 25 Deg C: Not Determined
SOLUBILITY IN WATER: Hydrolyzes
VOLATILES, PERCENT BY WEIGHT: 90%
EVAPORATION RATE: Faster than Ether
VAPOR DENSITY: Heavier than air
VOLATILE ORGANIC COMPOUND (VOC) G/L: 771 grams/Liter for Part A
861 grams/Liter for Part A & B mixed

Section: 10 STABILITY AND REACTIVITY DATA

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:
MECHANICAL SHOCK OR IMPACT: No
ELECTRICAL (STATIC) DISCHARGE: No
HAZARDOUS POLYMERIZATION: Will Not Occur
INCOMPATIBLE MATERIALS: Protect from moisture
CONDITIONS OF REACTIVITY: Will react with water
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide

Section: 11 TOXICOLOGICAL PROPERTIES

WARNING STATEMENTS AND WARNING PROPERTIES:
DO NOT TAKE INTERNALLY.

SIGNS, SYMPTOMS AND EFFECTS OF EXPOSURE

INHALATION

Inhalation of Propyl Alcohol may cause irritation of the nose and throat with sneezing, sore throat, or runny nose.

SKIN

Repeated and/or prolonged skin contact with propyl alcohol may cause defatting of the skin and itching, redness, or rash. There are inconclusive or unverified reports of human sensitization. Skin permeation may occur in amounts capable of producing the effects of systemic toxicity. Repeated skin contact with zirconium compounds may cause granulomas (inflammatory injury with knotlike swelling) of the skin..

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EYE

Eye contact with propyl alcohol may cause eye irritation with tearing, pain, or blurred vision. Contact with the vapor or aerosol may cause eye irritation with tearing, pain, or blurred vision.

INGESTION

Ingestion of propyl alcohol may cause irritation of the lower digestive tract with pain or diarrhea. A major ingestion hazard is aspiration (liquid entering the lungs during ingestion or vomiting) which may result in "chemical pneumonia". Symptoms include coughing, gasping, choking, shortness of breath, bluish discoloration of the skin, rapid breathing and heart rate, and fever. Pulmonary edema or bleeding, drowsiness, confusion, coma, and seizures may occur in more serious cases. Symptoms may develop immediately or as late as 24 hours after exposure depending on how much chemical entered the lungs.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

INTERACTIONS WITH OTHER CHEMICALS THAT ENHANCE TOXICITY: None known

ACUTE TARGET ORGAN TOXICITY: No organs know to be damaged from exposure to this product.

CHRONIC TARGET ORGAN TOXICITY: None known.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY: None known.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MUTAGENICITY: Not considered mutagenic.

Section: 12 ECOLOGICAL INFORMATION

AQUATIC TOXICITY: 48 Hour LC50, Fathead minnows: 5,000 mg/L

Section: 13 DISPOSAL CONSIDERATIONS
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Spilled material collected in absorbent material should be transferred to steel disposal or recovery drums.

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D.

If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

Section: 14 TRANSPORT INFORMATION
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DOT SHIPPING NAME: n-Propanol Solution

UN NUMBER: 1274

DOT HAZARD CLASS: 3

DOT PACKING GROUP: III

DOT REPORTABLE QUANTITY: None found in 49 CFR 172.101

Section: 15 REGULATORY INFORMATION

INTERNATIONAL

All components of this product are listed on the following inventories: MITI (Japan) EINECS (EEC) DSL (Canada).

FEDERAL

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TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III (SARA):**Section 302/304**

Requires emergency planning based on 'Threshold Planning Quantities' (TPQs), and release reporting based on Reportable Quantities (RQs) of 'Extremely Hazardous Substances' (EHS) listed in Appendix A of 40 CFR 355. There are no components of this material with known CAS numbers that are on the EHS list.

Section 311 & 312

Based upon the available information, this material and/or components is classified as a health and/or physical hazards according to Section 311 & 312:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	65-90%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No

Section 313

This material contains chemicals with known CAS numbers subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372:

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

This material does not contain chemical(s) with known CAS numbers classified as hazardous substances subject to the reporting requirements of CERCLA (40 CFR 302) and to the release reporting requirements of SARA (Section 302) based on reportable quantities (RQs).

OSHA Regulations

'Chemical-specific' U. S. Occupational Safety and Health Administration (OSHA) regulations (1910.1002 to 1910.1050) presented under 29 CFR 1910 do not apply to this material or its components.

State**California Safe Drinking Water and Toxic Enforcement Act of 1988- Proposition 65**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels that would be subject to the proposition

California South Coast Air Quality Management District (SCAQMD) Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1,1-trichloroethane, methylene chloride, FC-23, CFC-113, CFC-12, CFC-11, CFC-22, CFC-114, and CFC-115. By this definition, this is a VOC material.

Massachusetts Right to Know Substance List (MSL) [105 CMR 670.000]

Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is: >=1%. Components with CAS numbers present in this material at a level which could require reporting under the statute are:

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Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	65-90%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No

Extraordinarily Hazardous Substances (MSL-EHS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0001\%$. There are no materials present that could require reporting under this statute.

Pennsylvania Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material at a level that could require reporting under the statute are:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	65-90%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No

New Jersey Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. Components with CAS numbers present in this material at a level that could require reporting under the statute are:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	75-85%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No

Section: 16 PREPARATION INFORMATION

REVISION INFORMATION:

PREPARED BY:

APPROVAL DATE:

SUPERSEDES:

New Product

J Smith

5/8/08

N/A

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Andpak, Inc. The data in this sheet is related only to the specific material designated herein. Andpak, Inc. assumes no legal responsibility for use or reliance upon these data.

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Section: 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Sur-Prep AP-1 Part B **For Additional Product Information:** 1 (800) 648-2661

Manufacturer: Andpak, Inc.
 400 Jarvis Drive
 Morgan Hill, CA 95037 **In Emergency:** 1 (800) 424-9300

Section: 2 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

FOR EXPOSURE LIMITS SEE SECTION 8
 FOR OTHER TOXICOLOGICAL INFORMATION SEE SECTION 11

HAZARDOUS INGREDIENTS

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	15-30%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
Dipropylene glycol dimethyl ether	111109-77-4	65-90%	Hazardous: Combustible	Not Determined	3,300 mg/kg (oral)	>792 ppm	No

Section: 3 HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:

Combustible liquid and vapor. May cause eye irritation. Inhalation, ingestion, or skin contact with propyl alcohol may cause nonspecific effects such as headache, nausea, and weakness; and central nervous system depression with dizziness, confusion, lack of coordination, drowsiness, or unconsciousness.

HMIS RATINGS:

Health: 2
 Flammability: 3
 Reactivity: 0
 Protective Equipment: E

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Section: 4 FIRST AID MEASURES

EYES: May cause eye injury that will persist for several days. Flush immediately with water for 15 minutes and take to physician.

SKIN: Wash affected area and consult a physician if irritation persists.

INGESTION: If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Remove from exposure and restore breathing. Give oxygen if needed. Seek medical attention.

Section: 5 FIRE AND EXPLOSION HAZARDS

FLAMMABILITY DATA:

FLAMMABLE/COMBUSTIBLE/PYROPHORIC: Flammable

FLASH POINT AND METHOD: 90°F PMCC for Part B
86°F PMCC for Part A & B mixed

AUTOIGNITION TEMPERATURE: Not established

FLAMMABLE LIMITS AT NORMAL TEMPERATURE AND PRESSURE (PERCENT VOLUME IN AIR):

LEL: Not Determined **UEL:** Not Determined

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: Not Sensitive

SENSITIVITY TO STATIC DISCHARGE: Not Sensitive

EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog

FIRE FIGHTING TECHNIQUES AND COMMENTS: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exists. Water spray can be used to cool containers.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide

Section: 6 ACCIDENTAL SPILL/RELEASE INFORMATION

FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300.

REPORTABLE QUANTITY: Not Applicable

SPILL MITIGATION PROCEDURES:

Stop source of spill as soon as possible and notify appropriate personnel. Berm around spill area to prevent spill from spreading. Ventilate area. Do not flush into sewers.

AIR RELEASE:

Vapors may be suppressed by use of water fog or spray. Contain all liquid for treatment

WATER RELEASE:

Contain liquid for treatment.

LAND SPILL:

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Create a trench to contain materials. Spilled materials may be contained using sand, clay, earth or a commercial absorbent. Do not place materials back in their original containers.

SPILL RESIDUES:

Dispose of per guidelines under section 13, DISPOSAL CONSIDERATIONS.

PERSONNEL PROTECTION FOR EMERGENCY SPILL AND FIRE FIGHTING SITUATIONS:

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to gloves, apron, and safety glasses.

Section: 7 HANDLING AND STORAGE
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DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES WASH OFF WITH WATER.

Grounding of containers is recommended before material transfer.

STORAGE CONDITIONS:

Store in a cool, dry, well-ventilated place.

STORE AT TEMPERATURES BELOW 120°F. DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAMES. AVOID BREATHING VAPORS. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS AND OTHER CONFINED AREAS.

PRODUCT STABILITY AND COMPATIBILITY:

SHELF LIFE LIMITATIONS: To be determined

INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Strong acids. Strong bases. Strong oxidizers.

INCOMPATIBLE MATERIALS FOR PACKAGING: None known

Section: 8 PREVENTIVE MEASURES

PERSONAL PROTECTION FOR ROUTINE USE OF THIS PRODUCT:

RESPIRATORY PROTECTION: When spraying, use an organic vapor cartridge or air supplied respirator that insures exposure level remains below exposure limits unless local exhaust is sufficient. Refer to NIOSH publication No. 89-105 and NIOSH No. 87-116. See OSHA requirement under 29 CFR 1910.1025 and 29 CFR 1910.134.

SKIN AND EYE PROTECTIVE EQUIPMENT: Impervious gloves are recommended to prevent skin contact. Safety glasses to prevent eye contact are recommended.

ENGINEERING CONTROLS

VENTILATION: Local or mechanical to keep Section II ingredients below their exposure limits.

EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: None required

PROTECTIVE CLOTHING TYPE: (This includes: gloves, boots, apron, protective suit):

Impervious gloves, safety glasses

WASTE DISPOSAL:

Spilled material collected in absorbent material should be transferred to steel disposal or recovery drums. If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D. If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

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Section: 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE(gas, liquid, solid): Liquid
APPEARANCE: Clear and colorless
ODOR: Alcohol odor
FREEZING POINT: Not Determined
BOILING RANGE: Not Determined
DECOMPOSITION TEMPERATURE: Not Determined
SPECIFIC GRAVITY Part B: 0.88
SPECIFIC GRAVITY Part A&B: 0.88
BULK DENSITY: 7.3 lbs/gal @ 70 Deg F
pH @ 25 Deg C: Not Applicable
VAPOR PRESSURE @ 25 Deg C: Not Determined
SOLUBILITY IN WATER: Soluble
VOLATILES, PERCENT BY WEIGHT: 100%
EVAPORATION RATE: Slower than Ether
VAPOR DENSITY: Heavier than air
VOLATILE ORGANIC COMPOUND (VOC) G/L: 875 grams/Liter for Part B
861 grams/Liter for Part A & B mixed

Section: 10 STABILITY AND REACTIVITY DATA

CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:
MECHANICAL SHOCK OR IMPACT: No
ELECTRICAL (STATIC) DISCHARGE: No
HAZARDOUS POLYMERIZATION: Will Not Occur
INCOMPATIBLE MATERIALS: Protect from moisture
CONDITIONS OF REACTIVITY: Will react with water
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide

Section: 11 TOXICOLOGICAL PROPERTIES

WARNING STATEMENTS AND WARNING PROPERTIES:
DO NOT TAKE INTERNALLY.

SIGNS, SYMPTOMS AND EFFECTS OF EXPOSURE

INHALATION

Inhalation of propyl alcohol may cause irritation of the nose and throat with sneezing, sore throat, or runny nose.

SKIN

Repeated and/or prolonged skin contact may cause defatting of the skin and itching, redness, or rash.

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EYE

Eye contact may cause eye irritation with tearing, pain, or blurred vision. Contact with the vapor or aerosol may cause eye irritation with tearing, pain, or blurred vision.

INGESTION

Ingestion may cause irritation of the lower digestive tract with pain or diarrhea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

INTERACTIONS WITH OTHER CHEMICALS THAT ENHANCE TOXICITY: None known

ACUTE TARGET ORGAN TOXICITY: None known

CHRONIC TARGET ORGAN TOXICITY: Adrenal gland. Kidney. Liver.

REPRODUCTIVE AND DEVELOPMENTAL TOXICITY: None known.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MUTAGENICITY: Not considered mutagenic.

Section: 12 ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Slight toxicity due to the propyl alcohol. Propyl alcohol: 48 Hour LC50, Fathead minnows: 5,000 mg/L

Section: 13 DISPOSAL CONSIDERATIONS
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Spilled material collected in absorbent material should be transferred to steel disposal or recovery drums.

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste under Subpart D.

If this product becomes a waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

Section: 14 TRANSPORT INFORMATION
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DOT SHIPPING NAME: n-Propanol Solution

UN NUMBER: 1274

DOT HAZARD CLASS: 3

DOT PACKING GROUP: III

DOT REPORTABLE QUANTITY: None found in 49 CFR 172.101

Section: 15 REGULATORY INFORMATION

INTERNATIONAL

All components of this product are listed on the following inventories: MITI (Japan) EINECS (EEC) DSL (Canada).

FEDERAL**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The components of this product are listed on the TSCA inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III (SARA):**Section 302/304**

Requires emergency planning based on 'Threshold Planning Quantities' (TPQs), and release reporting

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based on Reportable Quantities (RQs) of 'Extremely Hazardous Substances' (EHS) listed in Appendix A of 40 CFR 355. There are no components of this material with known CAS numbers that are on the EHS list.

Section 311 & 312

Based upon the available information, this material and/or components is classified as a health and/or physical hazards according to Section 311 & 312:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	15-30%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
Dipropylene glycol dimethyl ether	111109-77-4	65-90%	Hazardous: Combustible	Not Determined	3,300 mg/kg (oral)	>792 ppm	No

Section 313

This material contains chemicals with known CAS numbers subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372:

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

This material does not contain chemical(s) with known CAS numbers classified as hazardous substances subject to the reporting requirements of CERCLA (40 CFR 302) and to the release reporting requirements of SARA (Section 302) based on reportable quantities (RQs).

OSHA Regulations

'Chemical-specific' U. S. Occupational Safety and Health Administration (OSHA) regulations (1910.1002 to 1910.1050) presented under 29 CFR 1910 do not apply to this material or its components.

State

California Safe Drinking Water and Toxic Enforcement Act of 1988- Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels that would be subject to the proposition

California South Coast Air Quality Management District (SCAQMD) Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1,1-trichloroethane, methylene chloride, FC-23, CFC-113, CFC-12, CFC-11, CFC-22, CFC-114, and CFC-115. By this definition, this is a VOC material.

Massachusetts Right to Know Substance List (MSL) [105 CMR 670.000]

Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is: >=1%. Components with CAS numbers present in this material at a level which could require reporting under the statute are:

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Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	15-30%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
Dipropylene glycol dimethyl ether	111109-77-4	65-90%	Hazardous: Combustible	Not Determined	3,300 mg/kg (oral)	>792 ppm	No

Extraordinarily Hazardous Substances (MSL-EHS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0001\%$. There are no materials present that could require reporting under this statute.

Pennsylvania Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material at a level that could require reporting under the statute are:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	15-30%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
Dipropylene glycol dimethyl ether	111109-77-4	65-90%	Hazardous: Combustible	Not Determined	3,300 mg/kg (oral)	>792 ppm	No

New Jersey Right to Know Hazardous Substance List

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. Components with CAS numbers present in this material at a level that could require reporting under the statute are:

Descriptive Name	CAS Number	Percentage Range	Hazard Type per CFR 1910.1200	Exposure Limits	LD ₅₀	LC ₅₀	NTP, IARC, Or OSHA Carcinogen
Propyl Alcohol	71-23-8	15-30%	Hazardous: Flammable	OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	3,830 mg/kg (oral)	>4,000 ppm	No
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Section: 16 PREPARATION INFORMATION

REVISION INFORMATION:
 PREPARED BY:
 APPROVAL DATE:
 SUPERSEDES:

New Product
 J Smith
 5/9/08
 N/A

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