

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1167A
Revision 1

Stone Product #: 47000

Product Name: Oti-Clo2 liquid Ear Cleansing Solution – (Part A)

Synonyms: Sodium Chlorite and Chlorous Acid, Sodium Salt

Chemical: Oxidant Salt

Case no.: 7758-19-2

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: EL-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: 100.17 °C

Evaporation Rate: similar to water

Vapor Pressure: ~23.7 mm Hg @ 25 °C

Specific Gravity: 1.044 @ 25 °C

Vapor Density (AIR): NA

pH @ 25°C: 12.5

Appearance and odor: Colorless Liquid

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: If solution is allowed to dry on organic material, fire may result.

Flammability Limit (AIR): NA

Liberation of ClO₂ gas: N/A

Special Fire-Fighting procedure: none

Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Temperature exceeding 120°F (49°C). Contact with; organic material may result in the formation of highly reactive and flammable compound.

Hazardous Decomposition Products: Excessive levels of chlorine dioxide gas may be generated when combined with bleach, strong acids and peroxides.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2020 mg/kg (sodium chlorite). Wash with soap and water.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact of chlorite (part A) with concentrated strong acids, hypochlorite(bleach) or peroxide requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg (sodium chlorite). Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable material to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is adequate for safe use of this product.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best stored in the dark.

Other Precautions: None required

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1167B
Revision 1

Stone Product #: 47000

Product Name: Oti-Clo2 Liquid Ear Cleansing Solution – (Part B)

Synonyms: Lactic acid

Chemical: Organic acid

Case no.: 50-21-5

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: EL-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: 99.5 °C

Evaporation Rate: similar to water

Vapor Pressure: ~17 mm Hg @ 25 °C

Specific Gravity: 1.019 @ 25 °C

Vapor Density (AIR): NA

pH @ 25°C: 2.5

Appearance and odor: Colorless Liquid

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.

Liberation of ClO₂ gas: N/A

Special Fire-Fighting procedure: none

Extinguishing Media: none

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Wash with water if irritation has occurred due to contact with product.

Inhalation: NA

Ingestion: Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Unnecessary.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature.

Other Precautions: None required

Judgments as to the suitability of information herein for purchase purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in preparation of such information, FRONTIER PHARMACEUTICAL, INC. extends no warranties, makes no representations and assumes no responsibility as to accuracy or suitability of such information for application to purchaser's intended purpose of or consequences of its use. Disposal of hazardous materials may be subject to federal, state or local laws or regulations.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1167C
Revision 1

Stone Product #: 47000

Product Name: Oti-Clo2 Liquid Ear Cleansing Solution – 1:1 mixture of Part (A) and Part (B)

Synonyms: chlorine dioxide solution.

Chemical: Oxidant

Case no.: 10049-04-4 (chlorine dioxide)

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: EL-03

Section II – Composition / Information on Hazardous Ingredients

Component (common name): not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: 100.5°C

Evaporation Rate: Similar to water

Vapor Pressure: 17 mm hg@25°C

Specific Gravity: 1.009@25°C

Vapor Density (AIR): NA

pH @ 25°C: 4.5

Appearance and odor: Pale yellow liquid, chlorine-like odor.

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): NA

Special Fire-Fighting procedure: none

Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Unstable

Condition to Avoid: Mixture may bleach clothing.

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush with water. Get medical attention, if irritation persists.

Skin Contact: Acute dermal LD₅₀ (combined sexes) >2,000 mg/kg.

Inhalation: Exposure to large amounts of chlorine dioxide gas requires removal of individual to fresh air and possible medical treatment. LC50 > 6.53 mg/liter air (4 hours of exposure) no mortality after 4 hours and 14 days observation.

Ingestion: Rat Oral LD₅₀ males 2.25g/kg, females 0.78 g/kg (chlorine dioxide). Ingestion in large quantities may produce gastric discomfort, nausea, vomiting, and diarrhea. Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable materials to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product.

Protective Gloves: not required.

Eye Protection: Avoid contact with eyes.

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature out of direct sunlight.

Other Precautions: none required.

Judgments as to the suitability of information herein for purchase purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in preparation of such information, FRONTIER PHARMACEUTICAL, INC. extends no warranties, makes no representations and assumes no responsibility as to accuracy or suitability of such information for application to purchaser's intended purpose or consequences of its use. Disposal of hazardous materials may be subject to federal, state or local laws or regulations.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1168A
Revision 1

Stone Product #: 47200
Product Name: Derma-Clo2 Ointment (Gel) – (Part A)
Synonyms: Sodium Chlorite and inactive ingredients
Chemical: Oxidant Salt
Case no.: 7758-19-2

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: RH-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA
Evaporation Rate: NA
Vapor Pressure: NA
Specific Gravity: NA
Viscosity: 20,000cp
Vapor Density (AIR): NA
pH @ 25°C: 12.5
Appearance and odor: Colorless or slightly yellow gel.
Water Solubility: yes

Section IV – Fire & Explosion Data

Flash Point & Method: NA
Auto Ignition Temp.: NA
Flammability Limit (AIR): NA
Liberation of ClO₂ gas: N/A
Special Fire-Fighting procedure: none
Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers
Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Temperature exceeding 120°F (49°C). When dried on organic material like cloth or paper, fire may result.

Hazardous Decomposition Products: High levels of chlorine dioxide gas may be generated when combined with bleach or strong acids.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2020 mg/kg. Wash with soap and water if irritation occurs.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact of chlorite (part A) with concentrated strong acids or hypochlorite (bleach) requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg. Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow to dry on rags, paper or other oxidizable material.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing any vapors or fumes resulting from strong acid activation.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best if stored in the dark.

Other Precautions: Do not use Part A alone. Parts A and B must be mixed prior to use.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1168B

Stone Product #: 47200
Product Name: Derma-Clo2 Ointment (Gel) – (Part B)
Synonyms: Combination of glycerin and lactic acid
Chemical: Emollient, organic acid
Case no.: 56-81-7 (glycerin), 50-21-5 (lactic acid)

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: RH-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA
Evaporation Rate: NA
Vapor Pressure: NA
Specific Gravity: NA
Viscosity: 20,000cp
Vapor Density (AIR): NA
pH @ 25°C: 3.2
Appearance and odor: Green Gel
Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA
Auto Ignition Temp.: NA
Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.
Liberation of ClO₂ gas: NA
Special Fire-Fighting procedure: none
Extinguishing Media: none
Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water.

Inhalation: NA

Ingestion: Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Unnecessary.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature.

Other Precautions: Do not use Part B alone. Parts A and B must be mixed prior to use.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1169A
Revision 1

Stone Product #: 47300
Product Name: Podi-Clo2 Green (Gel) – (Part A)
Synonyms: Sodium Chlorite (sodium salt of Chlorous acid)
Chemical: Oxidant Salt
Case no.: 7758-19-2 (sodium chlorite)

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: PCG-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA
Evaporation Rate: NA
Vapor Pressure: NA
Specific Gravity: NA
Viscosity: 18,000cp
Vapor Density (AIR): NA
pH @ 25°C: 12.4
Appearance and odor: translucent tan gel.
Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA
Auto Ignition Temp.: If solution is allowed to dry on organic material, fire may result.
Flammability Limit (AIR): NA
Special Fire-Fighting procedure: none
Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers
Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Exposure to direct sunlight. Temperature exceeding 120°F (49°C). Contact with organic material may result in the formation of highly reactive and flammable compound.

Hazardous Decomposition Products: Chlorine dioxide gas may be generated when combined with bleach, strong acids or peroxides.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2,020 mg/kg (sodium chlorite). Wash with soap and water.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact of chlorite (part A) with concentrated strong acids, hypochlorite (bleach) or peroxide requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg. Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable material to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing any vapors or fumes resulting from strong acid activation.

Protective Gloves: Recommended

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best if stored in the dark.

Other Precautions: Do not use Part A alone. Parts A and B must be mixed prior to use.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1169B
Revision 1

Stone Product #: 47300
Product Name: Podi-Clo2 Green (Gel) – (Part B)
Synonyms: Phosphoric acid
Chemical: Protic acid
Case no.: 7664-38-2

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: PCG-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA

Evaporation Rate: NA

Vapor Pressure: NA

Specific Gravity: NA

Viscosity: 38,000cp

Vapor Density (AIR): NA

pH @ 25°C: 2.0

Appearance and odor: blue-green gel

Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.

Liberation of ClO₂ gas: NA

Special Fire-Fighting procedure: none

Extinguishing Media: none

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with water.

Inhalation: None required

Ingestion: Acute oral toxicity studies in rats have resulted in LD50 values for glutaraldehyde in the range of 77-820 mg/kg body weight. Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Unnecessary.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature.

Other Precautions: Do not use Part B alone. Parts A and B must be mixed prior to use.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1169C
Revision 1

Stone Product #: 47300

Product Name: Podi-Clo2 Green (Gel) – 1:1 mixture of Part (A) and Part (B)

Synonyms: Sodium Chlorite, Chlorous acid, chlorine dioxide, phosphoric acid.

Chemical: Oxidant

Case no.: 7758-19-2 (sodium chlorite), 10049-04-4 (chlorine dioxide), 7664-38-2 (phosphoric acid)

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: PCG-03

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA

Evaporation Rate: NA

Vapor Pressure: NA

Specific Gravity: NA

Viscosity: 14,000cp

Vapor Density (AIR): NA

pH @ 25°C: 3.6

Appearance and odor: White-yellowish gel, turns yellow within about 5 minutes after parts A and B are mixed.

Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): NA

Special Fire-Fighting procedure: none

Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Liberation of Clo₂ gas: When Parts A and B are mixed, chlorine dioxide is generated. The concentration of chlorine dioxide will increase over a ten-minute time span.

Stability: In general, chlorine dioxide is unstable and will evaporate over time. The rate of gas-off is determined by the surface area and the temperature of the gel. If kept in a closed environment, the chlorine dioxide will be maintained for longer periods of time.

Condition to Avoid: Temperature exceeding 120°F (49°C).

Hazardous Decomposition Products: Excessive levels of Chlorine dioxide gas may be generated if large quantities are combined with bleach or strong acids.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2,020 mg/kg (sodium chlorite). Acute dermal rat LD₅₀ >2,000 mg/kg (chlorine dioxide). Wash with water if irritation occurs.

Inhalation: Not a concern under normal use conditions. Continuous exposure to high levels of chlorine dioxide gas can be irritating or hazardous. If strong odor or mucous membrane irritation is noted, move away from the area into fresh air.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg (sodium chlorite). Rat Oral LD₅₀ males 2.25g/kg, females 0.78 g/kg (chlorine dioxide). Ingestion in large quantities may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is adequate for safe use of this product. Leave area for a few minutes if excessive level of chlorine dioxide gas is generated should the product be exposed to bleach or strong acids.

Protective Gloves: not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Keep out of reach of children.

Other Precautions: Parts A and B should only be mixed at the time of use. Mixture will bleach clothing.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part (A) and (B) could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1170A
Revision 1

Stone Product #: 47400, 47420

Product Name: Epi-Clo2 Shampoo – (Part A)

Synonyms: Sodium Chlorite, chlorous acid, sodium salt aqueous gel

Chemical: Oxidant Salt

Case no.: 7758-19-2 (sodium chlorite)

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC
For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: DW-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA

Evaporation Rate: NA

Vapor Pressure: NA

Specific Gravity: NA

Viscosity: 9,000cp

Vapor Density (AIR): NA

pH @ 25°C: 12.4

Appearance and odor: slightly yellow clear gel.

Water Solubility: partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: If solution is allowed to dry on organic material, fire may result.

Flammability Limit (AIR): NA

Special Fire-Fighting procedure: none

Extinguishing Media: The gel will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Exposure to direct sunlight. Temperature exceeding 120°F (49°C). Contact with organic material may result in the formation of highly reactive and flammable compound.

Hazardous Decomposition Products: Chlorine dioxide gas may be generated when combined with bleach, strong acids and peroxides.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2020 mg/kg (sodium chlorite). Wash with water.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact with strong acids, hypochlorite (bleach) or peroxide requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg (sodium chlorite). Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow to dry on rags, paper or other oxidizable material.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is adequate for safe use of this product. Avoid breathing any vapors or fumes resulting from strong acid activation.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best if stored in the dark.

Other Precautions: None required.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1170B
Revision 1

Stone Product #: 47400, 47420

Product Name: Epi-Clo2 Shampoo – (Part B)

Synonyms: Combination of phosphoric acid, lactic acid

Chemical: mineral and organic acid

Case no.: 7664-38-2

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: DW-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA

Evaporation Rate: NA

Vapor Pressure: NA

Specific Gravity: NA

Viscosity: 14,000cp

Vapor Density (AIR): NA

pH @ 25°C: 3.3

Appearance and odor: Clear pale blue Gel

Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.

Special Fire-Fighting procedure: none

Extinguishing Media: none

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with water.

Inhalation: None required.

Ingestion: Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Unnecessary.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature.

Other Precautions: None required.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1171A
Revision 1

Stone Product #: 47500
Product Name: Denta-Clo2 Paste – (Part A)
Synonyms: Sodium Chlorite and chlorous acid, sodium salt
Chemical: Oxidant Salt
Case no.: 7758-19-2

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: FP-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA
Evaporation Rate: NA
Vapor Pressure: NA
Specific Gravity: NA
Viscosity: 44,000cp
Vapor Density (AIR): NA
pH @ 25°C: 12.5
Appearance and odor: white paste.
Water Solubility: partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA
Auto Ignition Temp.: If solution is allowed to dry on organic material, fire may result.
Flammability Limit (AIR): NA
Special Fire-Fighting procedure: none
Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers.
Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Exposure to direct sunlight. Temperature exceeding 120°F (49°C). Contact with organic material may result in the formation of highly reactive and flammable compound.

Hazardous Decomposition Products: Chlorine dioxide gas may be generated when combined with bleach, strong acids and peroxides.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Highly unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2020 mg/kg (sodium chlorite). Wash with soap and water.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact of chlorite (part A) with concentrated strong acids, hypochlorite (bleach) or peroxide requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg. Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable material to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is adequate for safe use of this product.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best if stored in the dark.

Other Precautions: None required.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1171B
Revision 1

Stone Product #: 47500

Product Name: Denta-Clo2 Paste – (Part B)

Synonyms: Combination of lactic acid, phosphoric acid and glutaraldehyde (trace amounts)

Chemical: Protic acids and catalyst

Case no.: 50-21-5 (lactic acid), 7664-38-2 (phosphoric acid), 111-30-8 (glutaraldehyde)

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: FP-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: NA

Evaporation Rate: NA

Vapor Pressure: NA

Specific Gravity: NA

Viscosity: 48,000cp

Vapor Density (AIR): NA

pH @ 25°C: 3.5

Appearance and odor: Greenish-blue paste.

Water Solubility: Partial

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.

Special Fire-Fighting procedure: none

Extinguishing Media: none

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with water.

Inhalation: NA

Ingestion: Safe to ingest in small quantities. Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Unnecessary.

Protective Gloves: Not required

Eye Protection: Avoid contact with eye

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature.

Other Precautions: None required.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1172A
Revision 1

Stone Product #: 47600
Product Name: Podi-Clo2 Liquid Concentrate – (Part A)
Synonyms: Sodium Chlorite and Chlorous acid, sodium salt
Chemical: Oxidant Salt
Case no.: 7758-19-2 (sodium chlorite)

Supplier:

Stone Mfg. & Supply Co.
1212 Kansas Ave.
Kansas City, MO 64127
Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC
For domestic shipments in USA/North America use 800-424-9300
For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.
Id No.: BC-01

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM.: 100.1°C

Evaporation Rate: similar to water

Vapor Pressure: 23.7 mm/hg @25°C

Specific Gravity: 1.044@25°C

Vapor Density (AIR): NA

pH @ 25°C: 13.2

Appearance and odor: colorless liquid.

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: If solution is allowed to dry on organic material, fire may result.

Flammability Limit (AIR): NA

Special Fire-Fighting procedure: none

Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Exposure to direct sunlight. Temperature exceeding 120°F (49°C). Contact with organic material may result in the formation of highly reactive and flammable compound. Do not mix Parts A and B together in large quantities without water.

Hazardous Decomposition Products: Excessive levels of chlorine dioxide gas may be generated when combined with bleach or strong acids, or when Parts A and B are mixed without water.

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Unlikely to be absorbed through skin in toxic amounts. Acute dermal LD₅₀ >2,020 mg/kg (sodium chlorite). Wash with soap and water.

Inhalation: Exposure to large amount of chlorine dioxide gas generated by contact of chlorite (part A) with concentrated strong acids, hypochlorite (bleach) requires removal of individual to fresh air and possible medical attention.

Ingestion: Rat Oral LD₅₀ 4,360mg/kg. Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Give milk or water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable material to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing any vapors or fumes resulting from strong acid activation.

Protective Gloves: Avoid prolonged contact with skin, protective gloves recommended

Eye Protection: Avoid contact with eyes, safety goggles recommended.

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature, out of direct sunlight. Best if stored in the dark.

Other Precautions: none required

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
-------------------------	-------	---------------------

No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

This MSDS complies with guidelines set by 29 CFR 1910.1200 It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1172B

Revision 1

Stone Product #: 47600

Product Name: Podi-Clo2 Liquid Concentrate – (Part B)

Synonyms: Combination of phosphoric acid, lactic acid

Chemical: Mineral acid, organic acid

Case no.: 7664-38-2 (phosphoric acid), 50-21-5 (lactic acid)

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: BC-02

Section II – Composition / Information on Hazardous Ingredients

Not applicable

Section III – Physical Data

Boiling Point at 1 ATM: 99.5°C

Evaporation Rate: Similar to water.

Vapor Pressure: ~ 17 mm hg

Specific Gravity: 1.019@25°C

Vapor Density (AIR): NA

pH @ 25°C: 1.4

Appearance and odor: colorless liquid

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): Although this product does not meet the definition for flammability, it can react with metals to liberate hydrogen, a flammable gas.

Liberation of ClO₂ gas: NA

Special Fire-Fighting procedure: none

Extinguishing Media: none

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Stable

Condition to Avoid: Avoid mixing with Part A until ready to use. Chlorine dioxide will be generated upon mixture of parts A and B. Do not mix Parts A and B together in large quantities without water.

Hazardous Decomposition Products: If Parts A and B are mixed together without water, excessive levels of chlorine dioxide may be generated.

Hazardous Polymerization: Will not occur.

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water.

Inhalation: NA

Ingestion: Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: (Local Exhaust) Open air or good room ventilation is adequate for safe use of this product.

Protective Gloves: Avoid prolonged contact with skin, protective gloves recommended.

Eye Protection: Avoid contact with eyes, safety goggles recommended

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature. Keep out of reach of children.

Other Precautions: none required.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

Proposition 65 Statement: No Information.

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Material Safety Data Sheet

SECTION I – Chemical Product and Company Identification

Date Printed: 01/04/2007

Prepare date: 12/27/2006

MSDS Inv.# 1172C

Revision 1

Stone Product #: 47600

Product Name: Podi-Clo2 Liquid Concentrate – mixture of Part (A) and Part (B)

Synonyms: chlorine dioxide solution.

Chemical: Oxidant

Case no.: 10049-04-4 (chlorine dioxide)

Supplier:

Stone Mfg. & Supply Co.

1212 Kansas Ave.

Kansas City, MO 64127

Ph. 816-231-4020(for information only)
(SMFG)

IN CASE OF CHEMICAL EMERGENCY CALL CHEMTREC

For domestic shipments in USA/North America use 800-424-9300

For shipments outside USA use 703-527-3887 (collect calls accepted)

Manufacturer:

Frontier Pharmaceutical, Inc.

Id No.: BC-03

Section II – Composition / Information on Hazardous Ingredients

Component (common name): Chlorine dioxide

TWA-8hr: 0.1 ppm (OSSHA PEL), 0.1 ppm (ACGIH TLV), 15min STEL: 0.3 ppm (OSHA PEL), 0.1 ppm (ACGIH TLV)

Section III – Physical Data

Boiling Point at 1 ATM.: 100.5°C

Evaporation Rate: Similar to water

Vapor Pressure: 17 mm hg@25°C

Specific Gravity: 1.009@25°C

Vapor Density (AIR): NA

pH @ 25°C: 3.6

Appearance and odor: Pale yellow liquid, chlorine-like odor.

Water Solubility: complete

Section IV – Fire & Explosion Data

Flash Point & Method: NA

Auto Ignition Temp.: NA

Flammability Limit (AIR): NA

Special Fire-Fighting procedure: none

Extinguishing Media: The solution will not burn. Use water to cool fire-exposed containers

Unusual Fire Explosion Hazard: None

Section V – Reactivity Data

Stability: Unstable

Condition to Avoid: Do not mix Parts A and B without water, as the resulting chlorine dioxide fumes may be irritating to breathe. Temperature exceeding 120°F (49°C). Mixture will bleach clothing.

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Section VI – Health Hazard Information

Threshold limit Value (TLV): NA

Effects of Overexposure: NA

Eye Contact: Flush immediately with water. Get medical attention, if irritation persists.

Skin Contact: Acute dermal LD₅₀ (combined sexes) >2,000 mg/kg.

Inhalation: Exposure to large amounts of chlorine dioxide gas requires removal of individual to fresh air and possible medical treatment. LC₅₀ > 6.53 mg/liter air (4 hours of exposure) no mortality after 4 hours and 14 days observation.

Ingestion: Rat Oral LD₅₀ males 2.25g/kg, females 0.78 g/kg (chlorine dioxide). Ingestion in large quantities may produce gastric discomfort, nausea, vomiting, and diarrhea. Give water to drink. Do not induce vomiting.

Section VII – Spill, Leak, and Disposal Procedures

Spill, Leaks: (Steps to be taken) Flush spills with water. Do not allow rags, paper or other oxidizable materials to dry.

Wastes Disposal Method: Dilute with water and flush down drain.

Section VIII – Special Protection Information

Respiratory Protection: (Specify Type) Unnecessary

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing excessive vapors or fumes.

Protective Gloves: Avoid prolonged contact with skin, protective gloves recommended.

Eye Protection: Avoid contact with eyes, safety goggles recommended.

Other Protective Equipment: None

Section IX – Special Precautions and Comments

Storage & Handling Information: Store at room temperature. Keep out of reach of children.

Other Precautions: Follow proper dilution instructions when preparing this product.

Section X – HMIS Ratings

HMIS Rating – Health: **Flammability:** **Reactivity:**

Section XI – Transportation and Storage (SARA)

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372

-----Chemical Name-----	CASE#	wt/wt% is less than
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No SARA Section 313 components exist in this product.

Previous MSDS Revision Date:

Legend: NA – not applicable
 ND – not determined
 NE – not established

Section XI – Transportation and Storage (DOT)

Transportation and Storage: If container is damaged in transit Part A and B could become mixed causing a potentially hazardous condition.

DOT Classification:

Section XII – Other Regulatory Information

Other Regulatory Information: Disclaimer: The forgoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to assure that their personnel have been notified of any changes, which may affect them. The data provided on this MSDS is not meant to be used as specification, only as guideline information as to the safe use of the product. User should refer to applicable laws before use.

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