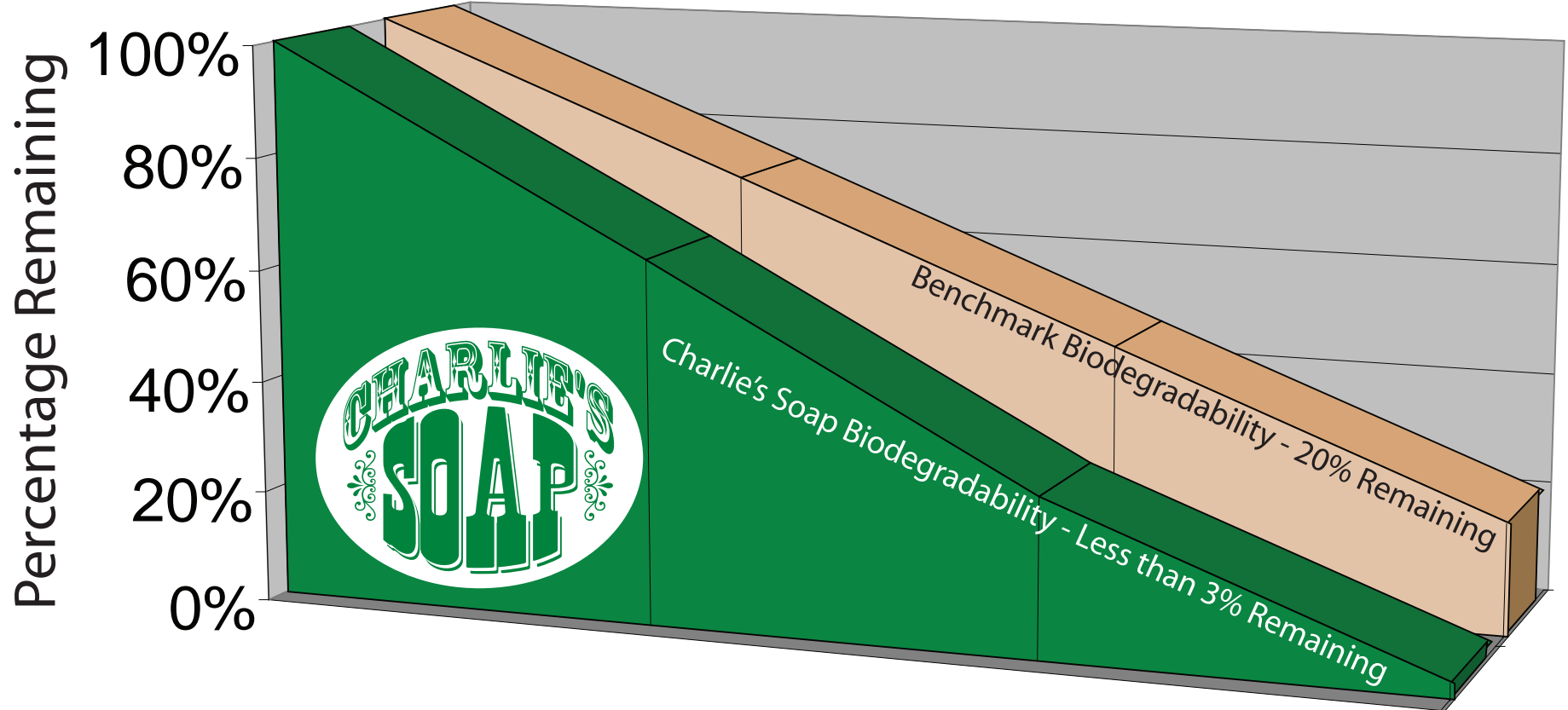




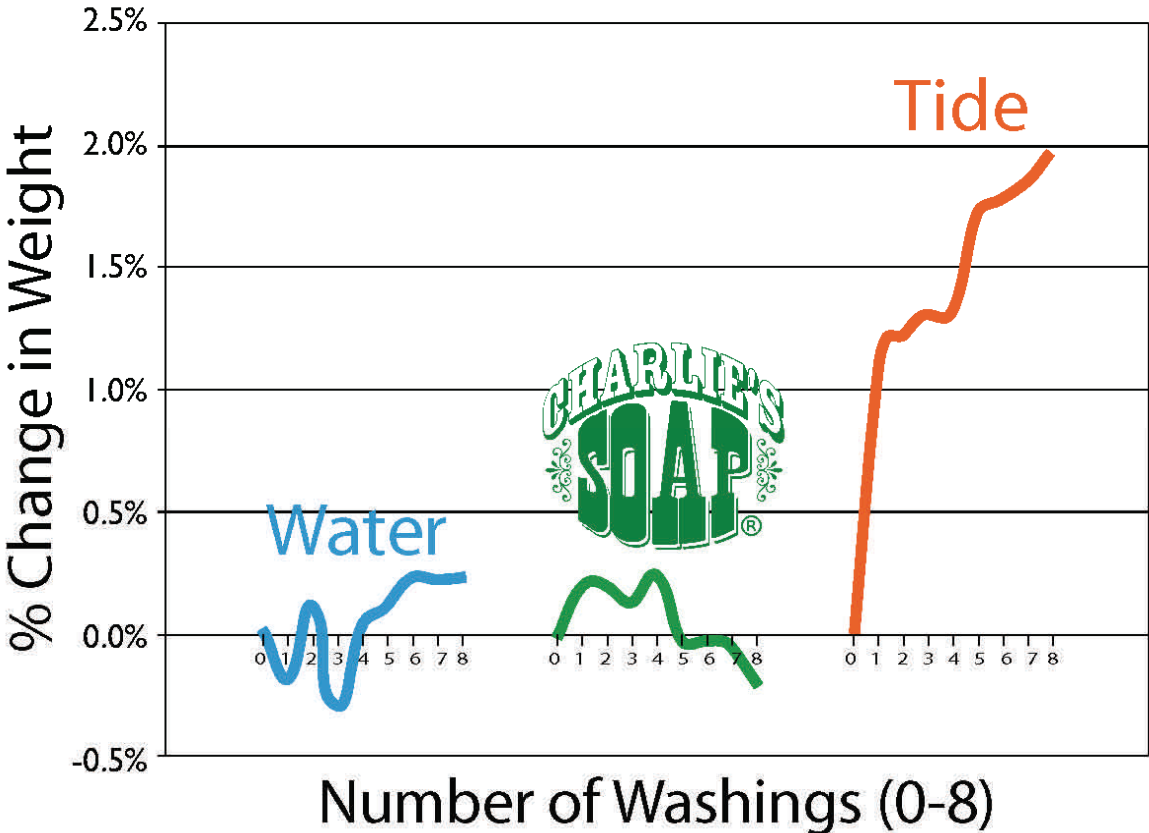
Biodegradability Test for Charlie's Soap

Sewage Test Method 1997 - Japan Sewage Association

File Number: 197121860-004



Charlie's Soap Rinses Completely



Test performed by **CLEMSON**
UNIVERSITY

Test Variation of AATCC Test Method #61 2A Scour
Charlie's Soap Compared to Tide Liquid

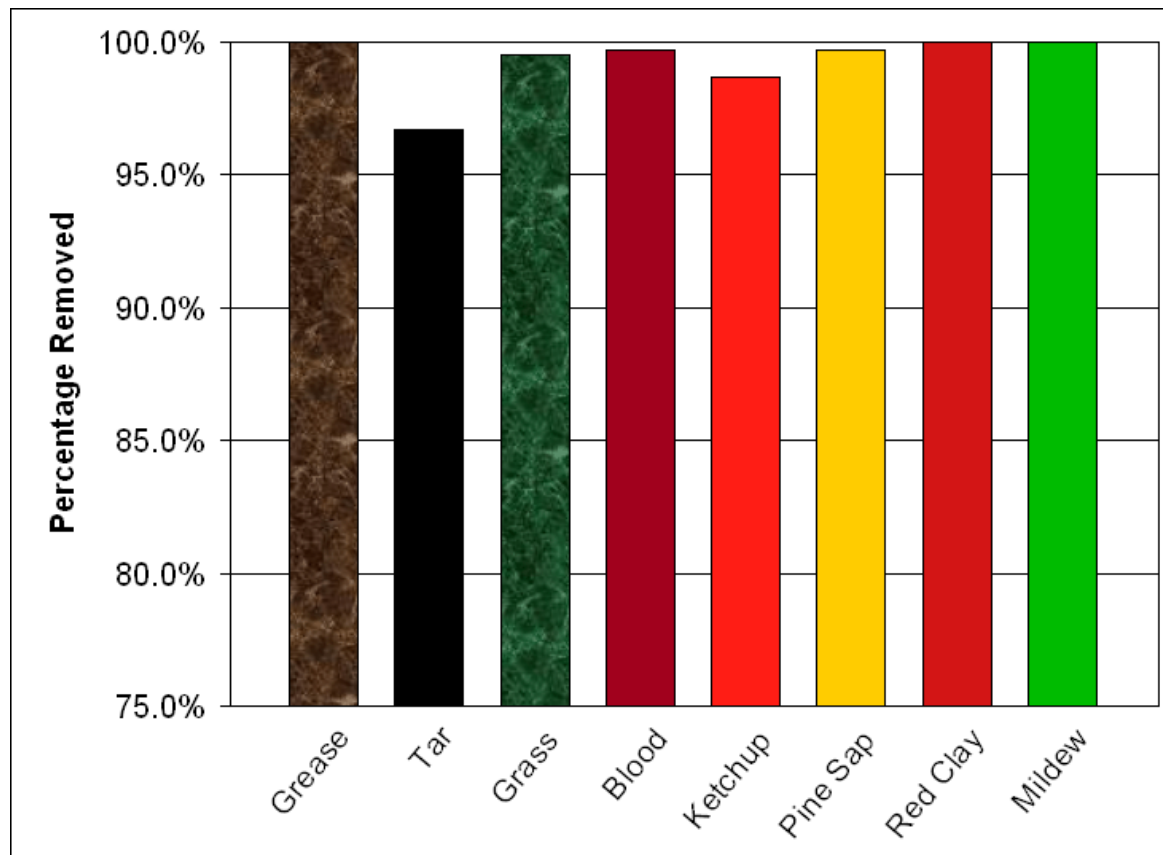
This test was performed with 100% cotton cloth diapers. Poor rinsability was indicated by a weight gain after controlled washing and drying. Diapers washed in Tide Liquid (at recommended levels) gained nearly 2% in weight after only 8 washings. Those washed in Charlie's Soap (at recommended levels and 4 times recommended levels) gained no measurable weight at all. It is reasonable to assume that hypo-allergenic fabrics washed in Charlie's Soap Laundry Liquid, which is shown to leave no irritating residues, will surely remain so when washed with Charlie's Soap.

Title: Charlie's Soap Industrial & Powder Combination Effective on a Wide Variety of Soils

Test: ASTM D 426b Stain Removal

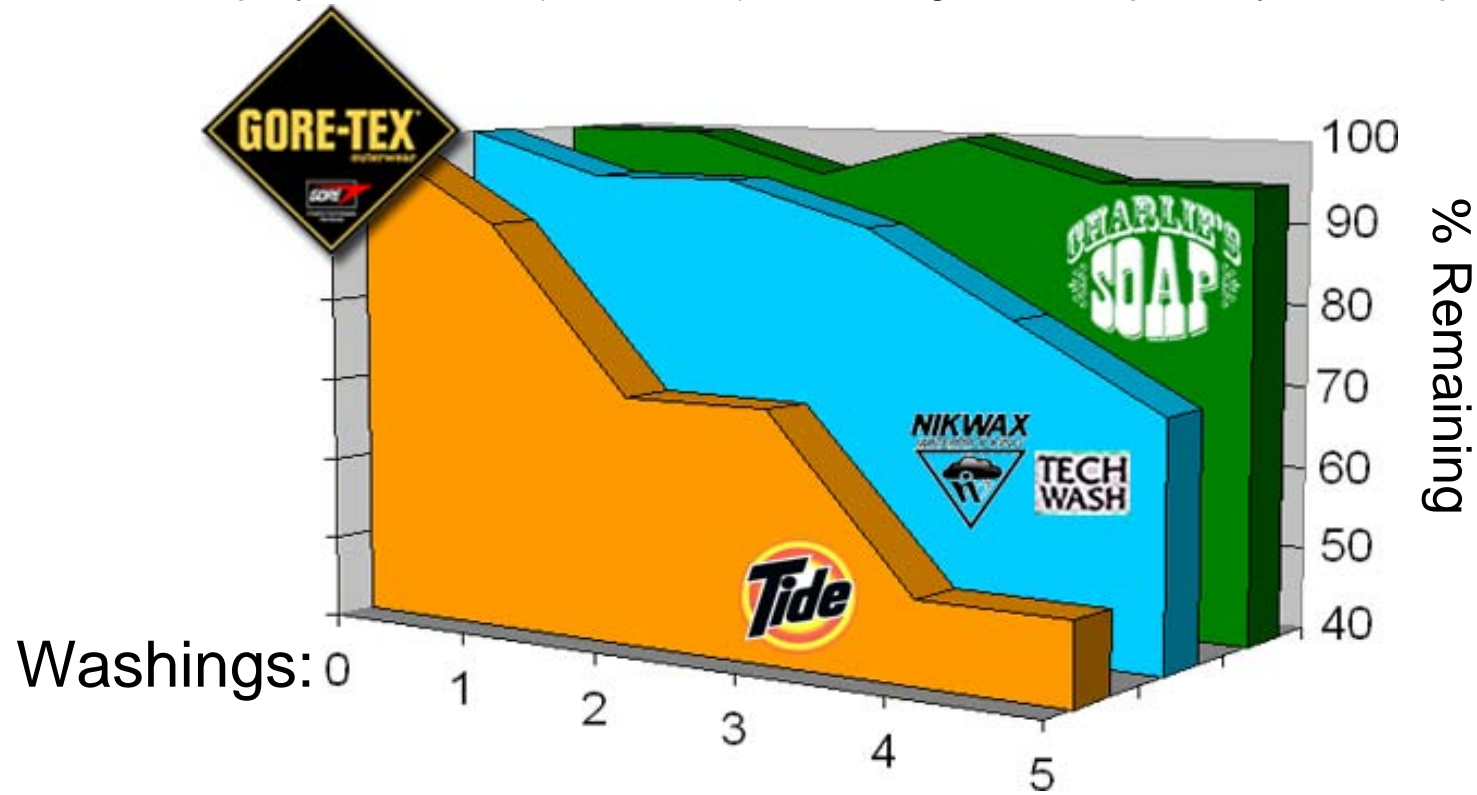
Tested by: SGS US Testing Labs, Life Science Services

- Fabric washed with Charlie's Soap Laundry Powder and was dried
- Fabric was stained and then allowed to sit for 30 minutes
- Pre-sprayed with Charlie's Soap All Purpose and agitated
- Rewashed with Charlie's Soap Laundry Powder and air dried

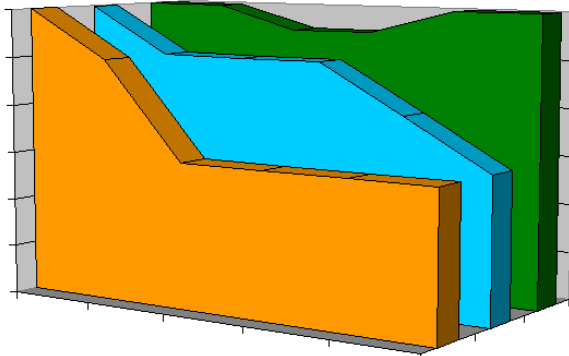


Charlie's Soap Liquid Laundry Saves Waterproofing

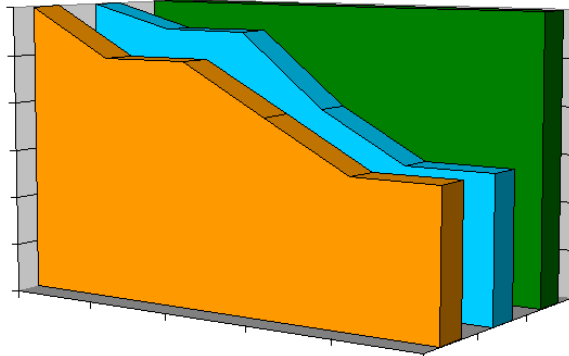
ASTM Water Spray test D-1913(AATCC 22) Measuring Water Repellency of Waterproof Fabrics.



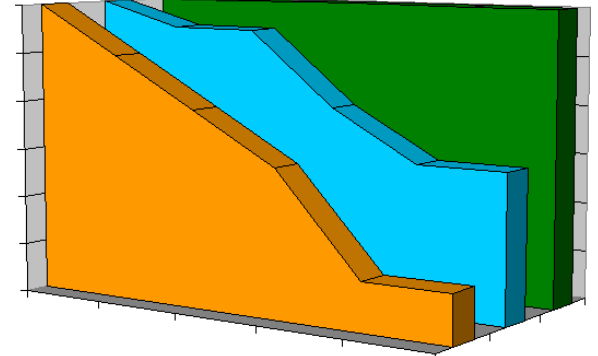
VENTI 2L



VENTI 3L

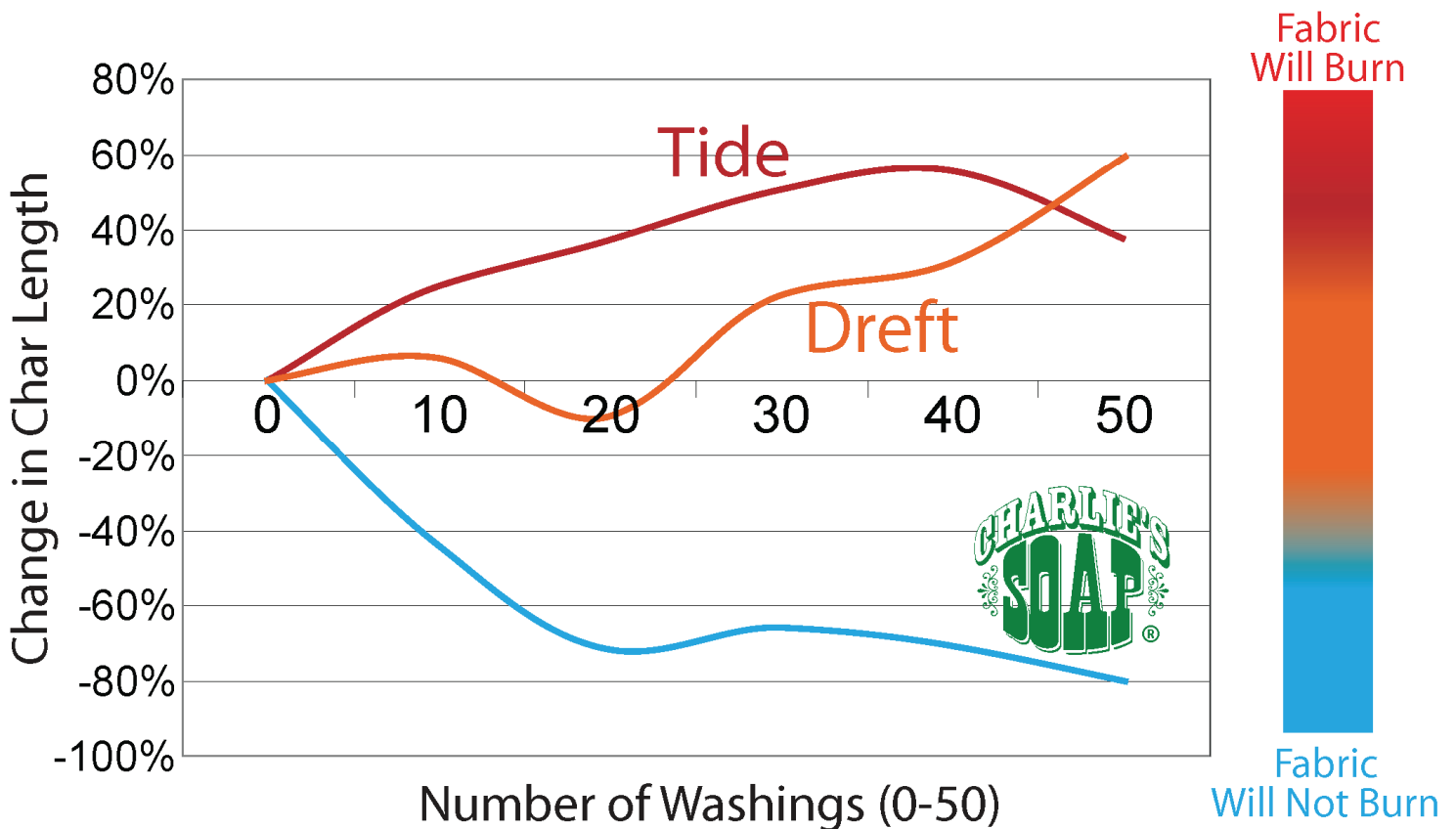


GTT



Protect Flame Proofing on Children's Sleepwear

Test Consumer Product Safety Commission's
Test 16 CFR 1615/1616 and ASTM Test D4723



Procedure: Test fabrics (manufactured already resistant to fire) submitted by Carter Manufacturing (C) were washed with various detergent, dried and exposed to open flame for 50 cycles. Results were measured by char length at each cycle.

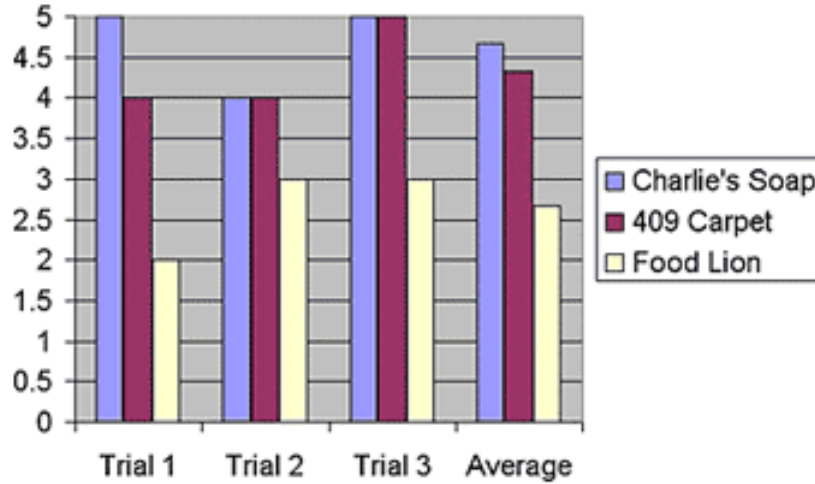
Results: Charlie's Soap continued to improve the flame retardant properties after each washing to the point where the fabric would not catch fire at all. No other detergent tested improved the flame retardant properties of children's sleepwear at all.

Test by Jessica, Chickaominy Middle School, Hanover, VA
Test "The Effects of Cleaning Agents on Stained Carpet"
Title Charlie's Soap Out Cleans Leading Brands

The three cleaners tested were Charlie's Soap - All Purpose, 409 and a generic Food Lion cleaner. Red fruit juice was used to stain three squares of carpet for each of the three cleaners: a total of nine squares. The researcher treated three carpet squares per cleaner for each cleaner and allowed the cleaners to soak in for 5 minutes. Then each carpet square was scrubbed with a rag for 2 minutes. The average amount cleaned for each brand of cleaning agent greatest to least is Charlie's Soap-5, Food Lion-3, and 409 Carpet-4.



Amount of Stain Cleaned (1-5)



Duke University Medical Center
Division of Occupational and Environmental Medicine
Box 2914
Durham, NC 27710

Tel: 919-286-5744
FAX: 919-286-5647

May 9, 1996

Mr. Charles Sutherland Jr.
Shiloh Products Inc.
203 N. First Ave, PO Box 69
Mayodan, North Carolina 27027

Dear Mr. Sutherland Jr.:

This letter is to certify we have reviewed the following products you market to an ACMI customer for compliance with the Labeling of Hazardous Art Materials Act (LHAMA) and ASTM D-4236:

SB 2069 CLEANER FOR [REDACTED] Redacted for customer privacy
[REDACTED]

I have completed a toxicologic evaluation of your products for labeling in conformance with ASTM D-4236, Practice for Labeling Art Materials for Chronic Hazards, and the Labeling for Hazardous Art Materials Act (LHAMA). I have submitted my criteria for evaluating art materials to CPSC. Your products will receive a toxicologic review whenever there is a formulation change or new toxicologic information concerning any ingredient or contaminant in the products but at a minimum every 5 years.

I find that these products will not pose any chronic health hazards that would require warning under LHAMA or ASTM D-4236.

The attached receipt must be forwarded to your ACMI customer for my approval of their product(s). For completion of the approval process, your ACMI customer must forward to me a copy of this receipt along with a Request for Toxicologist Approval of those brand names and colors to which the receipt applies. Please send your ACMI customer a copy of this letter along with the attached receipt.

Sincerely,



Woodhall Stopford, MD, MSPH
Consulting Toxicologist



United States
Department of
Agriculture

Food Safety
and Inspection
Service

Science
Building 306, BARC-East
Beltsville, MD 20705

March 20, 1990

Mr. Charles T. Sutherland, Jr.
Shiloh Products, Inc.
Post Office Box 69
Mayodan, NC 27027

Dear Mr. Sutherland:

This is in reply to your request for compound authorization received on February 14, 1990 for your product SB-2069 Industrial Strength Cleaner (REVISED).

This product is acceptable as a general cleaning agent on all surfaces, or for use with steam or mechanical cleaning devices in all departments of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs.

Before using this compound, food products and packaging materials must be removed from the room or carefully protected. After using this compound, surfaces must be thoroughly rinsed with potable water.

Acceptance of compounds by this Department is in no way to be construed as an endorsement of the compounds or of any claims made for them.

If any change is made in the labeling information or formulation, the authorization for use in official plants becomes void immediately.

Sincerely,

Charles R. Edwards, Chief
Product Safety Branch
Food Ingredient Assessment Division

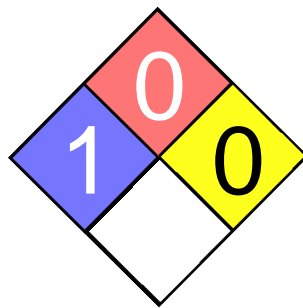
REPLACES FSQS FORM 6800-6 (7/80), WHICH IS OBSOLETE.

INTENTIONAL MISUSE OF THIS DOCUMENT IS A FEDERAL OFFENCE (18 U.S.C. 1001)





Charlie's Soap, Inc.
203 N 1st Ave. – Mayodan, NC 27027
(800) 854-3541



MATERIAL SAFETY DATA

EMERGENCY NO:
Contact CHEM-TEL INC.
1-800-255-3924
Contract No.: MIS0005129

SECTION I: IDENTIFICATION

chemical name & synonyms N/A			
chemical mixture POWDER HS Code 340220	formula PROPRIETARY	trade name LAUNDRY POWDER	Item number(s) 41601, 41701, 41504, 41505
description WHITE POWDER WITH FAINT ODOR, FOAMS EASILY WHEN MIXED WITH WATER		CAS# N/A	

SECTION II: NORMAL HANDLING PROCEDURES

precautions in storing and handling STORE IN DRY COVERED AREA		
protective equipment	ventilation	
eye protection gloves other	NONE WITH NORMAL USE NONE WITH NORMAL USE NONE WITH NORMAL USE	NORMAL

SECTION III: HAZARDOUS INGREDIENTS

basic material	CAS#	percent	OSHA PEL	significant ingredients
NO INGREDIENTS IDENTIFIED BY OSHA AS HAZARDOUS UNDER (29 CFR 1910.1200) ARE KNOWN TO BE PRESENT				

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

flash point method WILL NOT BURN	DOT hazard classification NON-FLAMMABLE	flammable explosive limits upper N/A lower N/A
extinguishing media NONE REQUIRED	special fire hazard & fire fighting procedure THIS PRODUCT WILL NOT BURN	

SECTION V: HEALTH HAZARD DATA

threshold limit value (TLV) N/A	symptoms of over-exposure PROLONGED EXPOSURE MAY CAUSE SOME DRYING OF SKIN AND IRRITATION OF EYES AND MUCOUS MEMBRANES
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SECTION VI: EMERGENCY FIRST-AID PROCEDURES

skin IF IRRITATED, WITHDRAW FROM FURTHER CONTACT. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
eyes FLUSH WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
ingestion DRINK WATER, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION
inhalation REMOVE TO FRESH AIR. IF BREATHING IS LABORED, GET MEDICAL ATTENTION

SECTION VII: TOXICOLOGY

acute oral LD50	NOT AVAILABLE	carcinogenic	NOT KNOWN TO BE CARCINOGENIC
acute dermal LD50	NOT AVAILABLE	mutagenic	NOT KNOWN TO BE MUTAGENIC
acute inhalation LC50	NOT AVAILABLE	eye irritation	IRRITANT
		primary skin irritation	NOT AN IRRITANT
principle routes of absorption DERMAL, ORAL, AND INHALATION			
effects of acute exposure IRRITATION TO EYES AND MUCOUS MEMBRANES			
effects of chronic exposure NONE EXPECTED AT NORMAL USE LEVELS			

SECTION VIII: SPILL OR LEAKAGE PROCEDURES

steps to be taken in case material is released or spilled SMALL SPILLS MAY BE SWEEPED UP AND DISCARDED IN APPROVED LAND FILL OR FLUSHED DOWN DRAIN TO APPROVED WASTE WATER TREATMENT FACILITY. LARGER SPILLS SHOULD BE TRAPPED AND STORED IN WATERPROOF CONTAINERS. RESIDUAL MATERIAL MAY BE REUSED OR FLUSHED AS DESCRIBED ABOVE.
waste disposal method TREAT OR DISPOSE OF ACCORDING TO REGULATIONS UNDER <u>THE RESOURCE CONSERVATION AND RECOVERY ACT</u> AS ADMINISTERED BY U.S. EPA OR APPROPRIATE STATE AGENCIES

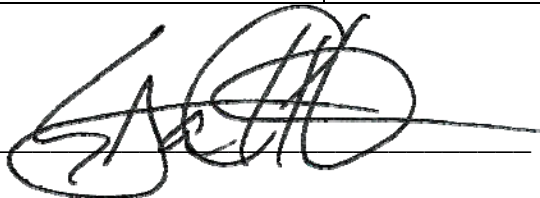
SECTION IX: REACTIVITY DATA

corrosive action (metals, plastics, rubber, etc.) MAY TEND TO DULL ALUMINUM AND MAGNESIUM
Stability THIS PRODUCT IS STABLE
conditions to avoid NONE
incompatibility (materials to avoid) STRONG ALKALI METALS
hazardous polymerization WILL NOT OCCUR
hazardous decomposition products NONE

SECTION X: PHYSICAL DATA

boiling point N/A	vapor pressure N/A	volatiles
melting point N/A	solubility in water SOLUBLE	evaporation rate (ETHER = 1) N/A
specific gravity 1.02 g/cm	pH (100% solution) 9.5-10.5	
specific vapor density (AIR=1) N/A	cloud point (100% solution) N/A	

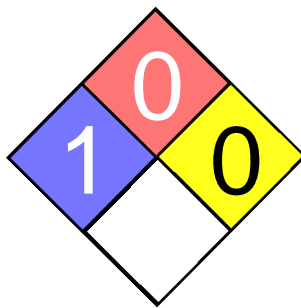
AUTHORIZED SIGNATURE



DATE 05/18/10



Charlie's Soap, Inc.
203 N 1st Ave. – Mayodan, NC 27027
(800) 854-3541



MATERIAL SAFETY DATA

EMERGENCY NO:
Contact CHEM-TEL INC.
1-800-255-3924
Contract No.: MIS0005129

SECTION I: IDENTIFICATION

chemical name & synonyms N/A			
chemical mixture MIXTURE HS Code 340220	formula PROPRIETARY	trade name Laundry Liquid	Item number(s) 21201, 21401, 21505
description CLEAR LIQUID WITH FAINT SWEET ODOR, FOAMS EASILY		CAS# N/A	

SECTION II: NORMAL HANDLING PROCEDURES

precautions in storing and handling STORE IN COVERED AREA; KEEP FROM FREEZING		
protective equipment	ventilation	
eye protection gloves other	NONE WITH NORMAL USE NONE WITH NORMAL USE NONE WITH NORMAL USE	NORMAL

SECTION III: HAZARDOUS INGREDIENTS

basic material	CAS#	percent	OSHA PEL	significant ingredients
NO INGREDIENTS IDENTIFIED BY OSHA AS HAZARDOUS UNDER (29 CFR 1910.1200) ARE KNOWN TO BE PRESENT				

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

flash point method WILL NOT BURN	DOT hazard classification NON-FLAMMABLE	flammable explosive limits upper N/A lower N/A
extinguishing media NONE REQUIRED	special fire hazard & fire fighting procedure THIS PRODUCT WILL NOT BURN	

SECTION V: HEALTH HAZARD DATA

threshold limit value (TLV) N/A	symptoms of over-exposure
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SECTION VI: EMERGENCY FIRST-AID PROCEDURES

skin IF IRRITATED, WITHDRAW FROM FURTHER CONTACT. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
eyes FLUSH WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
ingestion DRINK WATER, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION
inhalation REMOVE TO FRESH AIR. IF BREATHING IS LABORED, GET MEDICAL ATTENTION

SECTION VII: TOXICOLOGY

acute oral LD50	NOT AVAILABLE	carcinogenic	NOT KNOWN TO BE CARCINOGENIC
acute dermal LD50	NOT AVAILABLE	mutagenic	NOT KNOWN TO BE MUTAGENIC
acute inhalation LC50	NOT AVAILABLE	eye irritation	IRRITANT
		primary skin irritation	NOT AN IRRITANT
principle routes of absorption DERMAL, ORAL, AND INHALATION			
effects of acute exposure IRRITATION TO EYES AND MUCOUS MEMBRANES			
effects of chronic exposure NONE EXPECTED AT NORMAL USE LEVELS			

SECTION VIII: SPILL OR LEAKAGE PROCEDURES

steps to be taken in case material is released or spilled SMALL SPILLS MAY BE FLUSHED TO MUNICIPAL SEWAGE DRAIN OR APPROVED WASTE WATER TREATMENT FACILITY. LARGER SPILLS SHOULD BE TRAPPED AND ABSORBED FOR RETURN TO RESERVOIR OR STORAGE TANK AFTER FILTRATION. RESIDUAL MATERIAL MAY BE REUSED OR FLUSHED AS DESCRIBED ABOVE. THIS PRODUCT WILL RENDER FLAT SURFACES EXTREMELY SLIPPERY. BE CAREFUL.
waste disposal method TREAT OR DISPOSE OF ACCORDING TO REGULATIONS UNDER <u>THE RESOURCE CONSERVATION AND RECOVERY ACT</u> AS ADMINISTERED BY U.S. EPA OR APPROPRIATE STATE AGENCIES

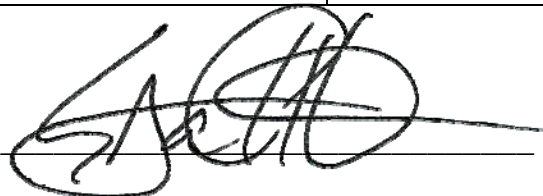
SECTION IX: REACTIVITY DATA

corrosive action (metals, plastics, rubber, etc.) OVER TIME, MAY TEND TO DULL ALUMINUM AND MAGNESIUM. DOES NOT AFFECT PLASTICS OR RUBBER SEALS
Stability THIS PRODUCT IS STABLE
conditions to avoid NONE
incompatibility (materials to avoid) STRONG ALKALI METALS
hazardous polymerization WILL NOT OCCUR
hazardous decomposition products NONE

SECTION X: PHYSICAL DATA

boiling point 104°C	vapor pressure NOT AVAILABLE	volatiles
melting point -3°C	solubility in water SOLUBLE	evaporation rate (ETHER = 1) SAME AS WATER
specific gravity 1.02 g/cm	pH (100% solution) 9.5-10.5	
specific vapor density (AIR=1) 1.02	cloud point (100% solution) 49°C	

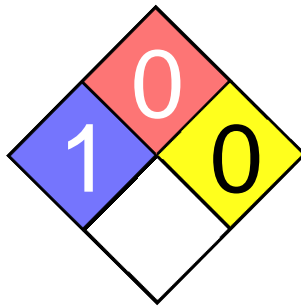
AUTHORIZED SIGNATURE



DATE 05/18/10



Charlie's Soap, Inc.
203 N 1st Ave. – Mayodan, NC 27027
(800) 854-3541



MATERIAL SAFETY DATA

EMERGENCY NO:
Contact CHEM-TEL INC.
1-800-255-3924
Contract No.: MIS0005129

SECTION I: IDENTIFICATION

chemical name & synonyms N/A			
chemical mixture COCONUT OIL STRAIGHT-CHAIN ETHOXYLATE; 2-BUTOXYETHANOL	formula PROPRIETARY	trade name Indoor/Outdoor Surface Cleaner	Item number(s) 11301, 11401, 11501
description CLEAR LIQUID WITH FAINT SWEET ODOR, FOAMS EASILY		CAS# N/A	

SECTION II: NORMAL HANDLING PROCEDURES

precautions in storing and handling STORE IN COVERED AREA; KEEP FROM FREEZING		
protective equipment	ventilation	
eye protection gloves other	NONE WITH NORMAL USE NONE WITH NORMAL USE NONE WITH NORMAL USE	NORMAL

SECTION III: HAZARDOUS INGREDIENTS

basic material 2-BUTOXYETHANOL	CAS# 111-76-2	percent <4% *	OSHA PEL 25ppm	significant ingredients
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SECTION IV: FIRE AND EXPLOSION HAZARD DATA

flash point method WILL NOT BURN	DOT hazard classification NON-FLAMMABLE	flammable explosive limits upper N/A lower N/A
extinguishing media NONE REQUIRED	special fire hazard & fire fighting procedure THIS PRODUCT WILL NOT BURN	

SECTION V: HEALTH HAZARD DATA

threshold limit value (TLV) N/A	symptoms of over-exposure
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SECTION VI: EMERGENCY FIRST-AID PROCEDURES

skin IF IRRITATED, WITHDRAW FROM FURTHER CONTACT. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
eyes FLUSH WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
ingestion DRINK WATER, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION
inhalation REMOVE TO FRESH AIR. IF BREATHING IS LABORED, GET MEDICAL ATTENTION

* At 4%, Charlie's Soap Indoor/Outdoor Surface Cleaner does not possess the occupational health risk associated with exposure to undiluted 2-butoxyethanol. Charlie's Soap Indoor/Outdoor Surface Cleaner contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. None of the ingredients in Charlie's Soap Indoor/Outdoor Surface Cleaner are regulated or listed as potential cancer agents by Federal OSHA, NTP, or IARC.

SECTION VII: TOXICOLOGY

acute oral LD50	NOT AVAILABLE	carcinogenic	NOT KNOWN TO BE CARCINOGENIC
acute dermal LD50	NOT AVAILABLE	mutagenic	NOT KNOWN TO BE MUTAGENIC
acute inhalation LC50	NOT AVAILABLE	eye irritation	IRRITANT
		primary skin irritation	NOT AN IRRITANT
principle routes of absorption DERMAL, ORAL, AND INHALATION			
effects of acute exposure MILD IRRITATION TO EYES AND MUCOUS MEMBRANES			
effects of chronic exposure NONE EXPECTED AT NORMAL USE LEVELS			

SECTION VIII: SPILL OR LEAKAGE PROCEDURES

steps to be taken in case material is released or spilled SMALL SPILLS MAY BE FLUSHED TO MUNICIPAL SEWAGE DRAIN OR APPROVED WASTE WATER TREATMENT FACILITY. LARGER SPILLS SHOULD BE TRAPPED AND ABSORBED FOR RETURN TO RESERVOIR OR STORAGE TANK AFTER FILTRATION. RESIDUAL MATERIAL MAY BE REUSED OR FLUSHED AS DESCRIBED ABOVE. THIS PRODUCT WILL RENDER FLAT SURFACES EXTREMELY SLIPPERY. BE CAREFUL.
waste disposal method TREAT OR DISPOSE OF ACCORDING TO REGULATIONS UNDER <u>THE RESOURCE CONSERVATION AND RECOVERY ACT</u> AS ADMINISTERED BY U.S. EPA OR APPROPRIATE STATE AGENCIES

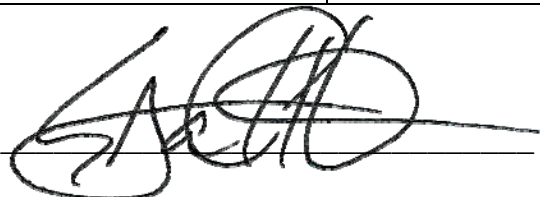
SECTION IX: REACTIVITY DATA

corrosive action (metals, plastics, rubber, etc.) OVER TIME, MAY TEND TO DULL ALUMINUM AND MAGNESIUM. DOES NOT AFFECT PLASTICS OR RUBBER SEALS
Stability THIS PRODUCT IS STABLE
conditions to avoid NONE
incompatibility (materials to avoid) STRONG ALKALI METALS
hazardous polymerization WILL NOT OCCUR
hazardous decomposition products NONE

SECTION X: PHYSICAL DATA

boiling point 104°C	vapor pressure NOT AVAILABLE	volatiles
melting point -8°C	solubility in water SOLUBLE	evaporation rate (ETHER = 1) SAME AS WATER
specific gravity 1.02 g/cm	pH (100% solution) 10.5-11	
specific vapor density (AIR=1) 1.02	cloud point (100% solution) 41°C	

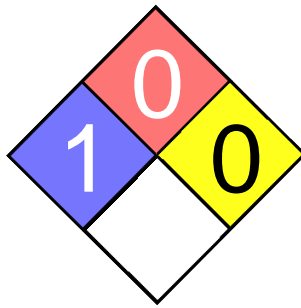
AUTHORIZED SIGNATURE



DATE 03/24/11



Charlie's Soap, Inc.
203 N 1st Ave. – Mayodan, NC 27027
(800) 854-3541



MATERIAL SAFETY DATA

EMERGENCY NO:
Contact CHEM-TEL INC.
1-800-255-3924
Contract No.: MIS0005129

SECTION I: IDENTIFICATION

chemical name & synonyms N/A			
chemical mixture COCONUT OIL STRAIGHT-CHAIN ETHOXYLATE; 2-BUTOXYETHANOL	formula PROPRIETARY	trade name Laundry Pre-Spray	Item number(s) 11201
description CLEAR LIQUID WITH FAINT SWEET ODOR, FOAMS EASILY		CAS# N/A	

SECTION II: NORMAL HANDLING PROCEDURES

precautions in storing and handling STORE IN COVERED AREA; KEEP FROM FREEZING		
protective equipment	ventilation	
eye protection gloves other	NONE WITH NORMAL USE NONE WITH NORMAL USE NONE WITH NORMAL USE	NORMAL

SECTION III: HAZARDOUS INGREDIENTS

basic material 2-BUTOXYETHANOL	CAS# 111-76-2	percent <4% *	OSHA PEL 25ppm	significant ingredients
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SECTION IV: FIRE AND EXPLOSION HAZARD DATA

flash point method WILL NOT BURN	DOT hazard classification NON-FLAMMABLE	flammable explosive limits upper N/A lower N/A
extinguishing media NONE REQUIRED	special fire hazard & fire fighting procedure THIS PRODUCT WILL NOT BURN	

SECTION V: HEALTH HAZARD DATA

threshold limit value (TLV) N/A	symptoms of over-exposure
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SECTION VI: EMERGENCY FIRST-AID PROCEDURES

skin IF IRRITATED, WITHDRAW FROM FURTHER CONTACT. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
eyes FLUSH WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
ingestion DRINK WATER, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION
inhalation REMOVE TO FRESH AIR. IF BREATHING IS LABORED, GET MEDICAL ATTENTION

* At 4%, Charlie's Soap Laundry Pre-Spray does not possess the occupational health risk associated with exposure to undiluted 2-butoxyethanol. Charlie's Soap Laundry Pre-Spray contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. None of the ingredients in Charlie's Soap Laundry Pre-Spray are regulated or listed as potential cancer agents by Federal OSHA, NTP, or IARC.

SECTION VII: TOXICOLOGY

acute oral LD50	NOT AVAILABLE	carcinogenic	NOT KNOWN TO BE CARCINOGENIC
acute dermal LD50	NOT AVAILABLE	mutagenic	NOT KNOWN TO BE MUTAGENIC
acute inhalation LC50	NOT AVAILABLE	eye irritation	IRRITANT
		primary skin irritation	NOT AN IRRITANT
principle routes of absorption DERMAL, ORAL, AND INHALATION			
effects of acute exposure MILD IRRITATION TO EYES AND MUCOUS MEMBRANES			
effects of chronic exposure NONE EXPECTED AT NORMAL USE LEVELS			

SECTION VIII: SPILL OR LEAKAGE PROCEDURES

steps to be taken in case material is released or spilled SMALL SPILLS MAY BE FLUSHED TO MUNICIPAL SEWAGE DRAIN OR APPROVED WASTE WATER TREATMENT FACILITY. LARGER SPILLS SHOULD BE TRAPPED AND ABSORBED FOR RETURN TO RESERVOIR OR STORAGE TANK AFTER FILTRATION. RESIDUAL MATERIAL MAY BE REUSED OR FLUSHED AS DESCRIBED ABOVE. THIS PRODUCT WILL RENDER FLAT SURFACES EXTREMELY SLIPPERY. BE CAREFUL.
waste disposal method TREAT OR DISPOSE OF ACCORDING TO REGULATIONS UNDER <u>THE RESOURCE CONSERVATION AND RECOVERY ACT AS ADMINISTERED BY U.S. EPA OR APPROPRIATE STATE AGENCIES</u>

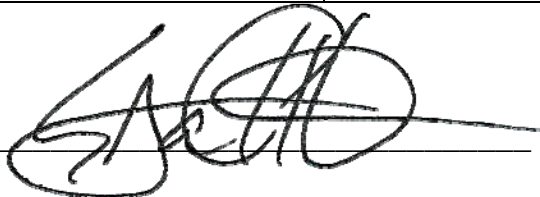
SECTION IX: REACTIVITY DATA

corrosive action (metals, plastics, rubber, etc.) OVER TIME, MAY TEND TO DULL ALUMINUM AND MAGNESIUM. DOES NOT AFFECT PLASTICS OR RUBBER SEALS
Stability THIS PRODUCT IS STABLE
conditions to avoid NONE
incompatibility (materials to avoid) STRONG ALKALI METALS
hazardous polymerization WILL NOT OCCUR
hazardous decomposition products NONE

SECTION X: PHYSICAL DATA

boiling point 104°C	vapor pressure NOT AVAILABLE	volatiles
melting point -8°C	solubility in water SOLUBLE	evaporation rate (ETHER = 1) SAME AS WATER
specific gravity 1.02 g/cm	pH (100% solution) 10.5-11	
specific vapor density (AIR=1) 1.02	cloud point (100% solution) 41°C	

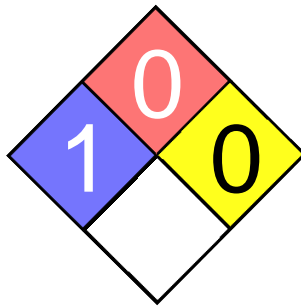
AUTHORIZED SIGNATURE



DATE 03/24/11



Charlie's Soap, Inc.
203 N 1st Ave. – Mayodan, NC 27027
(800) 854-3541



MATERIAL SAFETY DATA

EMERGENCY NO:
Contact CHEM-TEL INC.
1-800-255-3924
Contract No.: MIS0005129

SECTION I: IDENTIFICATION

chemical name & synonyms N/A			
chemical mixture COCONUT OIL STRAIGHT-CHAIN ETHOXYLATE; 2-BUTOXYETHANOL	formula PROPRIETARY	trade name Kitchen & Bath Natural Cleaner	Item number(s) 12301
description CLEAR LIQUID WITH FAINT SWEET ODOR, FOAMS EASILY		CAS# N/A	

SECTION II: NORMAL HANDLING PROCEDURES

precautions in storing and handling STORE IN COVERED AREA; KEEP FROM FREEZING		
protective equipment	ventilation	
eye protection gloves other	NONE WITH NORMAL USE NONE WITH NORMAL USE NONE WITH NORMAL USE	NORMAL

SECTION III: HAZARDOUS INGREDIENTS

basic material 2-BUTOXYETHANOL	CAS# 111-76-2	percent <2% *	OSHA PEL 25ppm	significant ingredients
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SECTION IV: FIRE AND EXPLOSION HAZARD DATA

flash point method WILL NOT BURN	DOT hazard classification NON-FLAMMABLE	flammable explosive limits upper N/A lower N/A
extinguishing media NONE REQUIRED	special fire hazard & fire fighting procedure THIS PRODUCT WILL NOT BURN	

SECTION V: HEALTH HAZARD DATA

threshold limit value (TLV) N/A	symptoms of over-exposure
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SECTION VI: EMERGENCY FIRST-AID PROCEDURES

skin IF IRRITATED, WITHDRAW FROM FURTHER CONTACT. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
eyes FLUSH WITH CLEAN WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION
ingestion DRINK WATER, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION
inhalation REMOVE TO FRESH AIR. IF BREATHING IS LABORED, GET MEDICAL ATTENTION

* At 2%, Charlie's Soap Kitchen & Bath Natural Cleaner does not possess the occupational health risk associated with exposure to undiluted 2-butoxyethanol. Charlie's Soap Kitchen & Bath Natural Cleaner contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. None of the ingredients in Charlie's Soap Kitchen & Bath Natural Cleaner are regulated or listed as potential cancer agents by Federal OSHA, NTP, or IARC.

SECTION VII: TOXICOLOGY

acute oral LD50	NOT AVAILABLE	carcinogenic	NOT KNOWN TO BE CARCINOGENIC
acute dermal LD50	NOT AVAILABLE	mutagenic	NOT KNOWN TO BE MUTAGENIC
acute inhalation LC50	NOT AVAILABLE	eye irritation	IRRITANT
		primary skin irritation	NOT AN IRRITANT
principle routes of absorption DERMAL, ORAL, AND INHALATION			
effects of acute exposure MILD IRRITATION TO EYES AND MUCOUS MEMBRANES			
effects of chronic exposure NONE EXPECTED AT NORMAL USE LEVELS			

SECTION VIII: SPILL OR LEAKAGE PROCEDURES

steps to be taken in case material is released or spilled SMALL SPILLS MAY BE FLUSHED TO MUNICIPAL SEWAGE DRAIN OR APPROVED WASTE WATER TREATMENT FACILITY. LARGER SPILLS SHOULD BE TRAPPED AND ABSORBED FOR RETURN TO RESERVOIR OR STORAGE TANK AFTER FILTRATION. RESIDUAL MATERIAL MAY BE REUSED OR FLUSHED AS DESCRIBED ABOVE. THIS PRODUCT WILL RENDER FLAT SURFACES EXTREMELY SLIPPERY. BE CAREFUL.
waste disposal method TREAT OR DISPOSE OF ACCORDING TO REGULATIONS UNDER <u>THE RESOURCE CONSERVATION AND RECOVERY ACT AS ADMINISTERED BY U.S. EPA OR APPROPRIATE STATE AGENCIES</u>

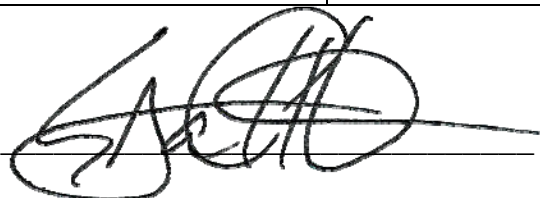
SECTION IX: REACTIVITY DATA

corrosive action (metals, plastics, rubber, etc.) OVER TIME, MAY TEND TO DULL ALUMINUM AND MAGNESIUM. DOES NOT AFFECT PLASTICS OR RUBBER SEALS
Stability THIS PRODUCT IS STABLE
conditions to avoid NONE
incompatibility (materials to avoid) STRONG ALKALI METALS
hazardous polymerization WILL NOT OCCUR
hazardous decomposition products NONE

SECTION X: PHYSICAL DATA

boiling point 102°C	vapor pressure NOT AVAILABLE	volatiles
melting point -6°C	solubility in water SOLUBLE	evaporation rate (ETHER = 1) SAME AS WATER
specific gravity 1.02 g/cm	pH (100% solution) 9.5-10.5	
specific vapor density (AIR=1) 1.0	cloud point (100% solution) 53°C	

AUTHORIZED SIGNATURE



DATE 03/24/11