

MATERIAL SAFETY DATA SHEET

MSDS D-121 REVISION 5

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

The Dial Corporation
19001 N. Scottsdale Road
Scottsdale, Arizona 85255-9672

Medical Emergencies: 1-888-689-9082
Chemtrec: 1-800-424-9300 (24 Hours Daily)
Other Information: 1-888-468-6673

PRODUCT: Hard Surface Cleaner DATE OF ISSUE: March 29, 2011

TRADE NAMES/SYNONYMS: Soft Scrub® with Bleach Cleanser
Soft Scrub® with Bleach Disinfectant Cleanser
Commercial Soft Scrub® with Bleach Disinfectant Cleanser

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 99102011, IDH# 1388321 (SS w/Bleach Disinfectant Cleanser)

EPA REG. NUMBER: 64240-44-57125

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: This product is a white, viscous, fragranced liquid. Direct contact with eyes can cause irritation. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin may cause irritation. Irritating, in high concentration, to the respiratory tract. Keep out of reach of children. No significant environmental effects. Not a fire hazard. Product is stable.

This product is labeled in accordance with guidelines set forth in the Federal Insecticide, Fungicide and Rodenticide Act. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet may differ from the requirements of the FD & C Act and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

REGULATORY STATUS

This material is considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200). This MSDS should be retained and available for employees and other users of this product.

POTENTIAL HEALTH EFFECTS

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

INHALATION: Not a likely route of exposure. Irritating, in high concentration, to the respiratory tract (nose, throat, and lungs).

SKIN CONTACT: Can cause mild skin irritation with prolonged contact.

EYE CONTACT: Can cause mild to moderate eye irritation.

INGESTION: Not a likely route of exposure. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy.

CHRONIC HEALTH EFFECTS: Due to the nature and composition of this product no chronic health effects are anticipated.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: No known health conditions are aggravated by exposure to this product.

POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12: Ecological Information.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT (w/w)</u>
Calcium Carbonate	1317-65-3	30 – 60 %
Sodium Hypochlorite	7681-52-9	1 – 5 %
Sodium Alkane Sulfonate	85711-69-9	1 – 5 %

SECTION 4: FIRST AID MEASURES

Call poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

INHALATION: Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. In either case, call a poison control center immediately for treatment advice.

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and continue rinsing eye. Get medical attention if pain or irritation persists.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

OSHA FLAMMABILITY CLASSIFICATION: Not applicable

FLASH POINT: > 200°F (TCC)

UPPER FLAMMABILITY LIMIT: Not applicable

LOWER FLAMMABILITY LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and oxides of nitrogen.

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide (CO₂) foam or water spray.

PROTECTION OF FIREFIGHTERS

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until fire is out. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS:**

Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8. Notify appropriate government, occupational health and safety and

environmental authorities. Keep unnecessary people away; isolate hazard area and restrict entry. Ensure clean up is conducted by trained personnel only.

ENVIRONMENTAL PRECAUTIONS:

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

METHODS FOR CONTAINMENT AND CLEAN UP:

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. No smoking, flames or flares in hazard area.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE:

Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Store in suitable labeled containers. Store the containers tightly closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

This product is a household product. The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

WORKER EXPOSURE LIMITS

The following exposure limits exist for the ingredients listed below. The TLV-TWA is the ACGIH Threshold Limit Value – Time Weighted Average. PEL is the OSHA Permissible Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Calcium Carbonate	1317-65-3	TLV-TWA: 10 mg/m ³ (total dust), PEL: 5 mg/m ³ (respirable fraction)

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants as low as possible.

RESPIRATOR: Air contamination monitoring should be carried out where generation of vapors is likely to occur, to assure that the employees are not exposed to harmful concentrations of any of the above-mentioned components. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing (impervious to liquids) is required where splashing of product may occur.

GLOVES: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE/FACE PROTECTION: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, viscous, fragranced liquid.

SOFT SCRUB WITH BLEACH CLEANSER

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ODOR/ODOR THRESHOLD: Pleasant fragrance

PHYSICAL STATE: Liquid

pH (@ 25°C): 12.7 (neat)

VAPOR DENSITY: Not available

BOILING POINT: Not available

VAPOR PRESSURE: Not available

MELTING/FREEZING POINT: Not available

FLASH POINT: > 200°F (TCC)

FLAMMABLE PROPERTIES: See Section 5.

SOLUBILITY IN WATER: Complete

DENSITY/SPECIFIC GRAVITY: 1.3 g/ml @ 25°C

EVAPORATION RATE: Not available

OCTANOL/WATER PARTITION COEFFICIENT (K_{ow}): Not available

VISCOSITY: 10,000-15,000 cP

CLOUD POINT: 0 - 45°F

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

CONDITIONS TO AVOID: Avoid storing in direct sunlight and avoid extremes of temperature.

INCOMPATIBLE MATERIALS: Strong oxidizers and reducing agents. Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include oxides of carbon.

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is a household product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes can cause irritation. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin may cause irritation. Irritating, in high concentration, to the respiratory tract.

COMPONENT ANALYSIS: The following toxicity information is for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

PRODUCT / INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY		
Antibacterial Soft Scrub w/bleach	> 5,000 mg/kg (rat)	Non-hazardous
Sodium hypochlorite (active ingredient)	8,910 mg/kg (rat)	Non-hazardous
Sodium Alkane Sulfonate	> 500 mg/kg (rat)	Toxic
ACUTE DERMAL TOXICITY		
Antibacterial Soft Scrub w/bleach	> 2,000 mg/kg (rabbit)	Practically Non-Toxic
EYE IRRITATION		
Antibacterial Soft Scrub w/bleach		Severely Irritating
SKIN IRRITATION		
Antibacterial Soft Scrub w/bleach		Moderately Irritating

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

TARGET ORGAN TOXICITY: None of the ingredients in this product are known to have target organ toxicity.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: ECOLOGICAL INFORMATION

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

INGREDIENT	LC50/EC50 (ANIMAL SPECIE)	TOXICITY RATING
VERTEBRATES		
Sodium hypochlorite	96-hr LC50: 0.22 - 0.62 mg/L (Pimephales promelas - flow-through)	Extremely Toxic
	96-hr LC50: 5.9 mg/L (Pimephales promelas – static)	Toxic
Sodium Alkane Sulfonate	96-hr LC50: 8.4 mg/L (Brachydanio rerio– flow through)	Toxic
INVERTEBRATES		
Sodium hypochlorite	96-Hr EC50: 2.1 mg/L (Daphnia magna)	Toxic
Sodium Alkane Sulfonate	24-Hr EC50: 12.5 mg/L (Daphnia magna)	Harmful
PLANTS (ALGAE)		
Sodium hypochlorite	24-Hr EC50: 0.095 mg/L (Skeletonema costatum)	Extremely toxic
Sodium Alkane Sulfonate	72-Hr EC50: 95.5 mg/L (Desmodesmus subspicatus)	Harmful

ENVIRONMENTAL FATE:

No environmental fate data exists for the product. The product is anticipated to be rapidly biodegradable.

PERSISTENCE AND DEGRADABILITY: The persistence and degradability of this product has not been determined.

BIOACCUMULATION POTENTIAL: The bioaccumulation potential of this product has not been determined.

MOBILITY: The mobility of this product (in soil and water) has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: This product is a RCRA characteristic hazardous waste (corrosive) and must be disposed of in a RCRA Subtitle C landfill.

Industrial/Commercial Disposal:

WASTE NUMBER AND DESCRIPTION: D002

Consumer Disposal:

If empty: Do not reuse this container. Place in trash. If partly filled: Call you local solid waste agency or toll free number 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain. Dispose of container and unused contents in accordance with federal, state and local requirements. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14: TRANSPORT INFORMATION

GROUND TRANSPORT

DOT Hazard Class: Not regulated
DOT Proper Shipping Name: Not applicable
UN/NA Number: Not applicable

Packing Group: Not applicable
Shipping Label Information: Not applicable

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class: Not regulated
ICAO/IATA Proper Shipping Name: Not applicable

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class: Not regulated
IMDG/IMO Proper Shipping Name: Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards that may be associated with the product, and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain additional health hazard information not pertinent to consumer use.

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product.

EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

This product contains no CERCLA/SARA Title III materials. This product is a hazardous chemical reportable under Sections 311/312. This product contains $\leq 2\%$ sodium hypochlorite (CAS# 7681-52-9) and $\leq 1\%$ sodium hydroxide (CAS# 1310-73-2), which are regulated under Section 304.

TSCA: This product is a registered biocide and is exempted from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

FIFRA: EPA Registration Number 64240-44-57125

EPA Establishment Number 5813-OH-01, 082055-IL-001

STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product does not contain substances listed under California Proposition 65.

CANADA:

CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: Some components of this product are not listed on the Canadian Domestic Substances List (DSL) nor the NDSL.

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: D2B.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0

HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0

MSDS CREATION DATE: 11/01/04

SUPERSEDES: Rev. 4, 04/24/09

REVISION DATE: 03/29/11

REVISION: Updated Formula I.D.Numbers, Composition, Toxicity Information