

MATERIAL SAFETY DATA SHEET

NOTE: This Material Safety Data Sheet (MSDS) is prepared for industrial/commercial use situations. The preparation of this MSDS may be required by law but this is not an assertion that this product presents a risk in the normal consumer use situation.

1. PRODUCT IDENTIFICATION

PRODUCT (AS LABELED): Surf® Laundry Detergent Powder - Active Oxygen, Original Scent

GENERAL USE: A Consumer Powder Laundry Detergent

MANUFACTURER'S NAME: Unilever Home & Personal Care, USA
ADDRESS: 33 Benedict Place
 Greenwich, CT 06830

BUSINESS PHONE: 1-800-598-1223

FORMULATION DATE: 27-Sep-2001
MSDS#: 142-Q01-02 (R279, R473)

2. COMPOSITION and INFORMATION ON INGREDIENTS

INGREDIENTS: Cleaning agents (anionic and nonionic surfactants, enzymes), water softeners (sodium carbonate and sodium aluminosilicate), fabric whitener, sodium perborate, anti-redeposition agent, perfume, washer protection agent (sodium silicate) and processing aids (sodium sulfate). This detergent is made without phosphorous.

EXPOSURE LIMITS IN AIR*

CHEMICAL NAME:	CAS#	ACGIH		OSHA	
		TLV mg/m ³	STEL mg/m ³	PEL mg/m ³	STEL mg/m ³
Sodium carbonate	497-19-8	NA	NA	NA	NA
Sodium aluminosilicate	1344-00-9	10	NA	5	NA
Sodium alkylbenzene sulfonate	68411-30-3	NA	NA	NA	NA
Alcohol ethoxylate	68131-39-5	NA	NA	NA	NA
Sodium perborate monohydrate	10332-33-9	3	NA	5	NA

NA = Not Applicable

*See Section 12. for DEFINITION OF TERMS

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION: Eye Irritant. May Be Harmful If Swallowed. Contains sodium carbonate and sodium perborate. In case of eye contact, rinse thoroughly with water. If swallowed, drink a glass of water or milk. Call a physician. KEEP OUT OF REACH OF CHILDREN.

POTENTIAL HEALTH EFFECTS:

CONTACT WITH EYES: Eye irritant.

CONTACT WITH SKIN: No irritation with brief contact. May cause skin irritation from prolonged or repeated industrial contact.

INGESTION: May be harmful if swallowed.

INHALATION: While inhalation of product is unlikely, such exposure may cause upper respiratory irritation.

CHRONIC HEALTH EFFECTS: None expected.

4. FIRST-AID MEASURES

EYE EXPOSURE: In case of eye contact, rinse thoroughly with water. Call a physician.

SKIN EXPOSURE: Rinse with water.

INGESTION: If swallowed, drink water or milk. Call a physician. Do not induce vomiting unless directed by a physician.

INHALATION: Move individual to fresh air.

Note: If symptoms persist, seek medical attention.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume %): Not applicable.

FIRE EXTINGUISHING MATERIALS: Use materials appropriate for the surrounding fire.

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product is not combustible. Use appropriate fire extinguishing agent for the packaging material.

SPECIAL FIRE FIGHTING PROCEDURES: None.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Disposal is to be performed in compliance with applicable laws. Small or household quantities may be disposed of in refuse or sewer. For large (industrial) releases, prevent spill from entering a waterway. Prevent exposure to product dust using a NIOSH approved dust mask.

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Use personal protective equipment appropriate for the task.

STORING AND HANDLING PRACTICES: Store in a dry place.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Use personal protective equipment when contact with the product dust is likely.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Mechanical ventilation not required during normal operations.

EYE PROTECTION: Wear safety glasses.

HAND PROTECTION: Wear rubber gloves for prolonged contact.

BODY PROTECTION: None required.

9. PHYSICAL and CHEMICAL PROPERTIES

VAPOR DENSITY: Not applicable

DENSITY: 590 g/l

SOLUBILITY IN WATER: Completely miscible.

VAPOR PRESSURE, mm Hg @ 20°C: Not applicable

APPEARANCE AND COLOR: Perfumed, white granular powder with colored speckles

EVAPORATION RATE (water=1): Not applicable

MELTING POINT OR RANGE: Not determined

BOILING POINT: Not applicable

pH (1% solution): ~11

10. STABILITY and REACTIVITY

STABILITY: Stable.

DECOMPOSITION PRODUCTS: None.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong acids, strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with strong acids, strong oxidizers.

11. TRANSPORTATION INFORMATION

THIS MATERIAL IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME:

Not applicable.

HAZARD CLASS NUMBER and DESCRIPTION:

Not applicable.

UN IDENTIFICATION NUMBER:

Not applicable.

PACKING GROUP:

Not applicable.

DOT LABEL(S) REQUIRED:

Not applicable.

EMERGENCY RESPONSE GUIDE NUMBER:

Not applicable.

MARINE POLLUTANT:

Not applicable.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS NOT CLASSIFIED AS "DANGEROUS GOODS".

12. OTHER INFORMATION

PREPARED

Unilever HPC USA

BY:

New York, NY 10022

October 26, 2001

The information contained in this MSDS is based on data which is believed to be accurate. While Unilever HPC USA believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which Unilever HPC USA assumes legal responsibility. They are offered solely for your consideration and verification. This MSDS is not prepared for consumer use situations.

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following: CAS #: This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching. EXPOSURE LIMITS IN AIR: ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits. TLV - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit (STEL), and the instantaneous Ceiling Level. Skin adsorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration. PEL - Permissible Exposure Limit - this exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs). FLAMMABILITY LIMITS IN AIR: Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. NA = Not Applicable.