



MATERIAL SAFETY DATA SHEET

I. PRODUCT AND COMPANY INFORMATION

TRADE NAME: Substance
CHEMICAL FAMILY: Liquid Laundry Detergent

Date Prepared: 5/3/06
Version: 2

HCS (Division of Washing Systems, LLC)
5579 Spellmire Dr.
Cincinnati, OH 45246
513-870-4830
EMERGENCY CONTACT: CHEMTREC (800-424-9300)

II. HAZARDOUS INGREDIENTS

The materials listed in this data sheet are classified as **HAZARDOUS** in accordance with the definition set forth by the Occupational Safety and Health Administration in 29 CFR 1910.1200.

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>EXPOSURE LIMIT</u>
Nonylphenoxy (polyethylenoxy) ethanol	Nonionic Surfactant	UNK
Sodium nitrilotriacetate	NTA	1 mg/m ³ TWA (total dust)
Sodium hydroxide	Sodium hydroxide, liquid	2 mg/m ³ ACGIH TLV/Ceiling

III. PHYSICAL/CHEMICAL CHARACTERISTICS

<u>APPEARANCE & ODOR</u>	<u>VAPOR DENSITY (AIR=1)</u>	<u>BOILING POINT</u>	<u>SOLUBILITY IN WATER</u>
Opaque white emulsion	UNK	UNK	Soluble
<u>SPECIFIC GRAVITY</u>	<u>EVAPORATION RATE (N-Butyl Acetate=1)</u>	<u>VAPOR PRESSURE (mmHg)</u>	<u>MELTING POINT</u>
1.08	UNK	UNK	N/A

IV. FIRE AND EXPLOSION DATA

<u>FLASHPOINT</u>	<u>FLAMMABLE LIMITS (lower limit) (upper limit)</u>	<u>AUTO IGNITION TEMP</u>
N/A	UNK UNK	UNK

EXTINGUISHING AGENTS: Alcohol Foam, Water Fog, Carbon Dioxide, or Dry Chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

V. REACTIVITY DATA

<u>STABILITY</u>	<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	<u>MATERIALS TO AVOID</u>	<u>HAZARDOUS POLYMERIZATION</u>
Stable	May liberate oxides of carbon and nitrogen.	Strong Oxidizers and acids	Will not occur.

VI. HEALTH HAZARD DATA

SKIN:	<u>ACUTE</u>	Causes severe irritation.
	<u>CHRONIC</u>	None known.
EYES:	<u>ACUTE</u>	Causes severe irritation.
	<u>CHRONIC</u>	None Known
INHALATION:	<u>ACUTE</u>	Inhalation of spray or mist may cause respiratory irritation.
	<u>CHRONIC</u>	None known.
INGESTION:	<u>ACUTE</u>	May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.
	<u>CHRONIC</u>	This product contains NTA. In laboratory tests, rats and mice continuously fed highly exaggerated doses of NTA showed evidence of urinary tract toxicity, including cancer ; lower doses showed none of these toxic effects. By ACGIH guidelines, NTA would not be considered an occupational (human) carcinogen of any practical significance.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

None Known.

CARCINOGENICITY

OSHA: NO

IARC MONOGRAPHS: NO

NTP: NO

EMERGENCY AND FIRST AID PROCEDURES

SKIN:	Immediately flush area with plenty of cool water. If irritation develops, consult a physician.
EYES:	Immediately flush thoroughly with cool water under low pressure for at least 15 minutes, holding lids apart and moving eye to ensure flushing of the entire surface. Call a physician.
INHALATION:	Remove from contaminated atmosphere. If breathing stops, administer artificial respiration. Get medical attention.
INGESTION:	Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. If conscious, give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Call a physician immediately.

VII. SPILL OR LEAK PROCEDURES

Dike to contain spill and prevent entry into sewers, waterways, and low areas. Soak up pooled liquids with a suitable absorbent (e.g., clay, fullers earth, etc.). Sweep up absorbed material and dispose of in a manner approved by local, state, and federal regulations. Flush spill area with water. Contains no phosphates.

SPECIAL PRECAUTIONS

Store in a cool dry area in a closed container. Avoid freezing.

VIII. CONTROL MEASURES

<u>RESPIRATORY PROTECTION</u>	<u>EYE PROTECTION</u>	<u>PROTECTIVE GLOVES</u>	<u>OTHER PROTECTIVE EQUIPMENT</u>
If mists are generated, use NIOSH approved mask.	Safety glasses	Rubber, neoprene or nitrile	Impervious clothing and shoes
	<u>VENTILATION:</u> <u>Mechanical</u>	<u>Local</u>	<u>Special</u>
	General venilation	None	None

N/A = Not Applicable

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TCC = Tag Closed Cup

UNK = Unknown at This Time

SUBSTANCE