



MATERIAL SAFETY DATA SHEET

I. PRODUCT AND COMPANY INFORMATION

TRADE NAME: PureDet
CHEMICAL FAMILY: Liquid Laundry Detergent

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

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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 (polyethyleneoxy) ethanol	Nonionic Surfactant	UNK
2-Butoxyethanol	Ethylene Glycol Monobutyl Ether	PEL: 25 ppm – Skin TLV: 25 ppm - Skin

III. PHYSICAL/CHEMICAL CHARACTERISTICS

<u>APPEARANCE & ODOR</u>	<u>VAPOR DENSITY (AIR=1)</u>	<u>BOILING POINT</u>	<u>SOLUBILITY IN WATER</u>
Clear Purple Liquid, Citrus Odor	> 1	>336°F	Soluble
<u>SPECIFIC GRAVITY</u>	<u>EVAPORATION RATE (N-Butyl Acetate=1)</u>	<u>VAPOR PRESSURE (mmHg)</u>	<u>MELTING POINT</u>
1.06	< 1	UNK	N/A

IV. FIRE AND EXPLOSION DATA

<u>FLASHPOINT</u>	<u>FLAMMABLE LIMITS</u>		<u>AUTO IGNITION TEMP</u>
	<u>(lower limit)</u>	<u>(upper limit)</u>	
>150°F	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: Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited at locations distant from material handling point. Never use welding torch or cutting torch on or near drum (even empty) because product can ignite explosively.

V. REACTIVITY DATA

<u>STABILITY</u>	<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	<u>MATERIALS TO AVOID</u>	<u>HAZARDOUS POLYMERIZATION</u>
Stable	May liberate carbon monoxide and carbon dioxide.	Strong Oxidizers and Strong Alkalies	Will not occur.

VI. HEALTH HAZARD DATA

SKIN:	<u>ACUTE</u>	Exposure may cause mild skin irritation. Skin absorption is possible upon prolonged contact.
	<u>CHRONIC</u>	Can be fatal by overexposure.
EYES:	<u>ACUTE</u>	Causes severe eye irritation.
	<u>CHRONIC</u>	None Known
INHALATION:	<u>ACUTE</u>	Short term inhalation toxicity is moderate. Inhalation of higher concentration may cause central nervous system depression, blood in urine, difficulty breathing, blood abnormalities, kidney and liver damage, and death.
	<u>CHRONIC</u>	Can be fatal by overexposure.
INGESTION:	<u>ACUTE</u>	Small amount is not likely to cause harmful effects. Large amounts may cause central nervous system depression, blood abnormalities, kidney and liver damage, and coma.
	<u>CHRONIC</u>	Can be fatal by overexposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing lung disorders may be aggravated by exposure to this material.

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, well-ventilated area away from oxidizers, alkalis, heat, sparks, and open flame. Keep containers closed when not in use. Emptied containers can still be a hazard due to residual liquid and vapor.

VIII. CONTROL MEASURES

<u>RESPIRATORY PROTECTION</u>	<u>EYE PROTECTION</u>	<u>PROTECTIVE GLOVES</u>	<u>OTHER PROTECTIVE EQUIPMENT</u>
None	Safety Goggles	Rubber	Impervious clothing and shoes
	<u>VENTILATION:</u> <u>Mechanical</u>	<u>Local</u>	<u>Special</u>
	Air dilution necessary to maintain exposure below TLV	None	None

N/A = Not Applicable

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TCC = Tag Closed Cup

UNK = Unknown at This Time

PUREDET