

pHD® GERMICIDAL CLEANER

LAST REVISION DATE: 02/27/01

MANUFACTURER: Pioneer Eclipse® Corp.

Sparta, NC 28675 Phone: 1-336-372-8080

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire,
Exposure or Accident CALL CHEMTREC - Day
or Night 1-800-424-9300 Toll Free in the
Continental U.S. 483-7616 in DISTRICT OF
COLUMBIA. For calls originating outside the
U.S.: Call Collect 1-202-483-7616
Washington, DC.

SECTION I: GENERAL INFORMATION

PRODUCT NAME: pHD® Germicidal Cleaner

PRODUCT #: 602

PRODUCT CLASS: Cleaner & Disinfectant

U.S. D.O.T. HAZARD CLASS: Non-regulated

CAS#: N/E

PRECAUTIONS: Possible skin and eye irritant.

Keep container sealed when not in use. Keep
out of reach of children.

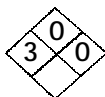
FLAMMABILITY: 0

REACTIVITY: 0

HEALTH: 3

NFPA HAZARD RATINGS

4-EXTREME 3-HIGH 2-MODERATE
1-SLIGHT 0-INSIGNIFICANT



SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: Ethylene diamine tetraacetic acid

CAS#: 60-00-4 %: 1-5

OSHA PEL: N/E

ACGIH TLV: N/E

LD 50 SPECIES & ROUTE: 2g/kg rat, oral

INGREDIENT: Didecyl dimethyl ammonium chloride

CAS#: 7173-51-5 %: 5-10

OSHA PEL: N/E

ACGIH TLV: N/E

LD 50 SPECIES & ROUTE: 2g/kg rabbit, dermal
0.6g/kg rat, oral

INGREDIENT: n-Alkyl dimethyl benzyl ammonium chloride

CAS#: 8001-54-5 %: 5-10

OSHA PEL: N/E

ACGIH TLV: N/E

LD 50 SPECIES & ROUTE: 2g/kg rabbit, dermal
0.6g/kg rat, oral

INGREDIENT: Octyl dimethyl amine oxide

CAS#: 2605-78-9 %: 1-5

OSHA PEL: N/E

ACGIH TLV: N/E

LD 50 SPECIES & ROUTE: N/L

INGREDIENT: Sodium hydroxide

CAS#: 1310-73-2 %: 1-3

OSHA PEL: 2 mg/m³ACGIH TLV: 2 mg/m³

LD 50 SPECIES & ROUTE: 0.2g/kg rat, oral

* This chemical is subject to the reporting requirements
of Section 313 of SARA Title III.

N/E = Not Established, N/L = Not Listed,

N/A = Not Applicable,

(C) = Identified as a Carcinogen by OSHA, IARC or NTP

SECTION III: PHYSICAL/CHEMICAL DATA

PHYSICAL STATE: Liquid

pH: 7.7 ± 0.5

BOILING POINT: 100°C/212°F

EVAPORATION RATE: Less than 1 (Water = 1)

FREEZING POINT: 0°C/32°F

VAPOR DENSITY: Less than 1 (Air = 1)

% VOLATILE BY WEIGHT: 76-78%

VAPOR PRESSURE (mm Hg): N/E

APPEARANCE: Light amber liquid

WEIGHT PER GALLON: 8.4 lbs. (3.8 kg)

SOLUBILITY IN WATER: Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible

EXPLOSIVE LIMITS:

LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, CO₂, dry
chemical, alcohol or universal type foam.

SPECIAL FIRE FIGHTING PROCEDURES: None

HAZARDOUS COMBUSTIBLE PRODUCTS: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, ammonia,
nitrous oxide, and/or hydrogen chloride from
thermal decomposition.

REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: May cause eye damage, redness, tearing.

For eye contact, flush with a large amount of
water for at least 15 minutes. See a physician
immediately.

SKIN: Causes severe skin irritation, reddening or
possible defatting upon repeated or prolonged
contact. In case of contact, flush area with
water. Seek medical attention if irritation
persists.

INHALATION: No adverse reaction expected.

INGESTION: May cause nausea, abdominal
discomfort, vomiting, diarrhea if ingested. Drink
promptly a large quantity of milk, egg whites,
gelatin solution or water. Avoid alcohol. Seek
medical attention immediately. Possible
mucosal damage may contraindicate the use of
gastric lavage. Measures against circulatory
shock, respiratory depression and
convulsion may be needed.

CHRONIC EFFECTS AND MEDICAL CONDITIONS

AGGRAVATED BY OVEREXPOSURE: Prolonged or
repeated contact can cause drying, defatting
and dermatitis to skin.

CARCINOGEN: Non-carcinogenic

REPRODUCTIVE EFFECTS: N/E

TERATOGENICITY: N/E

MUTAGENICITY: N/E

THRESHOLD LIMIT VALUE: See Section II.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material
(e.g. sand, earth) and dispose of as waste
material in accordance with local, state and
federal regulations.

LARGE SPILLS: Keep spectators away. Floors
may be slippery; use care to avoid falling. Dike
and contain spill with inert material (e.g. sand,
earth). Transfer liquid to containers for recovery
or disposal and solid diking material to
separate containers for disposal. Keep spills
and cleaning runoff out of sewers and open
bodies of water.

WASTE DISPOSAL: Landfill or incinerate the
contaminated solids and diking material
according to local, state and federal
regulations concerning disposal of hazardous
materials. Non-salvageable liquid should be
drummed and turned over to a licensed
hazardous waste disposal facility.

SECTION VIII: SPECIAL PROTECTION

EYE PROTECTION: Chemical splash goggles
(ANSI Z87.1-1989 or approved equivalent).

RESPIRATORY PROTECTION: None required when
permissible airborne concentrations are not
exceeded. In emergency, use approved positive
pressure self-contained breathing device.

VENTILATION: Mechanical local exhaust
ventilation at point of contamination release.

OTHER PROTECTIVE EQUIPMENT: Rubber boots
and chemical resistant gloves are
recommended.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Storage temperature
(MAX. 60°C/140°F) (MIN. 1°C/34°F).

OTHER PRECAUTIONS: Keep from freezing.

SECTION X: ADDITIONAL INFORMATION

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PREPARED BY: JAMES B. McCORMICK

TITLE: Chief Chemist

DATE: 11/15/96

This MSDS has been provided to you in accordance with
the OSHA HAZARD COMMUNICATION STANDARD
(29CFR1910.1200)

***IMPORTANT SAFETY INFORMATION
DO NOT DISCARD***

PLEASE ROUTE TO COMPANY SAFETY OFFICER

Pioneer Eclipse®