DOT-

PROPER SHIPPING NAME- FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPYL ALCOHOL) HAZARD CLASS- 3 (FLAMMBLE LIQUID) IDENTIFICATION NUMBER- UN1993 LABEL REQUIRED- PG III, FLAMMABLE LIQUID

IMDG- PROPER SHIPPING NAME- NOT AVAILABLE

IATA- PROPER SHIPPING NAME- NOT AVAILABLE

15. REGULATORY INFORMATION

SARA 302 THRESHOLD PLANNING QUANTITY. 164 POUNDS

SARA 304 REPORTABLE QUANTITY 7406 POUNDS

SARA 311 CATEGORIES- IMMEDIATE (ACUTE) HEALTH EFFECTS.. Y

DELAYED (CHRONIC) HEALTH EFFECTS.. Y

FIRE HAZARD Y

SUDDEN RELEASE OF PRESSURE HAZARD, N

REACTIVITY HAZARD N

WHEN A PRODUCT AND/OR COMPONENT IS LISTED BELOW, THE REGULATORY LIST ON WHICH IT APPEARS IS INDICATED,

STODDARD SOLVENT - MA NJ PA RI ISOPROPYL ALCOHOL - FL MA MN NJ PA 01 BUTYL CELLOSOLVE - CT LA MA NJ PA RI WV 1,2,4-TRIMETHYLBENZENE - MA NJ PA 01 1,3,5-TRIMETHYLBENZENE - MA NJ RI XYLENE - FL IL MA ME MN NJ PA RI 01 07 ISOOCTANOL - MA NJ PA RI 05 CUMENE - FL MA MN NJ PA 01 07 ETHYL BENZENE - FL MA MN NJ PA 01 07 NAPHTHALENE - FL MA MN NJ PA 01 07 2-ETHYLHEXANOL - MA PA

01=SARA 313

04=OSHA CARCINOGEN 07=CERCLA 302.4

10=OTHER CARCINOGEN

PA=PENNSYLVANIA RTK MA=MASSACHUSETTS RTK

FL=FLORIDA

NY=NEW YORK LA=LOUISIANA 02=SARA 302/304

05=ACGIH CARCINOGEN

08=WHMIS CONTROLLED PROD.

NJ=NEW JERSEY RTK

MI=MICHIGAN 406 RI=RHODE ISLAND

WV=WEST VIRGINIA ME=MAINE

CA=CALIFORNIA PROP 65

MN=MINNESOTA RTK

03=IARC CARCINOGEN

06=NTP CARCINOGEN

IL=ILLINOIS CT=CONNECTICUT

OH=OHIO

THIS PRODUCT OR ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

A THE RESIDENCE TO THE PROPERTY OF THE PROPER .6. OTHER INFORMATION

MSDS

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 1987798 PRODUCT NAME(S) : Diesel F : Diesel Fuel Water Remover

PRODUCT IDENTIFICATION : PART NO: 75223

DATE OF MSDS : 1997-12-15

*** MANUFACTURER INFORMATION ***

MANUFACTURER : CRC Industries Inc ADDRESS : 885 Louis Drive

Warminster Pennsylvania

U.S.A. 18974

EMERGENCY TELEPHONE NO.: 215-674-4300

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR

: CRC CANADA INC

ADDRESS : 1246 LORIMAR DRIVE, UNIT #2

MISSISSAUGA ONTARIO

CANADA

Telephone: 905-670-2291

Fax: 905-670-5941

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER: Diesel Fuel Water Remover

PART NO.: 75223

PRODUCT USE: Additive PROPER SHIPPING NAME: n.ap

UN NUMBER: n.ap TDG CLASS: n.ap WHMIS CLASS: B3, D2B

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS CAS NUMBER ______

Petroleum Distillate 94 68476-34-6

LD50 OF INGREDIENT (SPECIES & ROUTE)

N.AV

LC50 OF INGREDIENT (SPECIES & ROUTE)

N.AV

2 Butoxy Ethanol 111-76-2

LD50 OF INGREDIENT (SPECIES & ROUTE)

1480 mg/kg oral rat

LC50 OF INGREDIENT (SPECIES & ROUTE)

500 ppm/4hr/ihl/rat

Detergent N.AV

LD50 OF INGREDIENT (SPECIES & ROUTE)

LC50 OF INGREDIENT (SPECIES & ROUTE)

N.AV

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:

Liquid BOILING POINT: n.av VAPOUR PRESSURE: n.av EVAPORATION RATE: n.av SPECIFIC GRAVITY: 0.867 FREEZING POINT: VAPOUR DENSITY (AIR=1): n.av n.av

ODOUR & APPEARANCE: Light amber clear liquid.

COEFF. WATER/OIL DIST .: Negligible in water. Dissolves in most organic

solvents.

SECTION 4 - FIRE & EXPLOSION DATA

FLAMMABILITY: Yes UNDER WHAT CONDITIONS: Class B, div 3. MEANS OF EXTINCTION: Carbon dioxide, dry chemical, foam.

FLASH POINT (DEG C): 46 deg C METHOD: TCC

FLAMMABILITY LIMITS (% BY VOLUME)

UPPER: n.av LOWER: n.av

AUTOIGNITION TEMP .: n.av SENSITIVITY TO IMPACT: n.av

SENSITIVITY TO STATIC DISCHARGE: n.av

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBILITY WITH OTHER SUBSTANCES: Avoid strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: See "HAZARDOUS COMBUSTION PRODUCTS".

REACTIVITY, AND UNDER WHAT CONDITIONS: N.av

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Skin, inhalation

EFFECTS OF ACUTE EXPOSURE: Inhalation - vapors may cause headache, nausea,

Mist may cause breathing problems. Skin - dryness. Eyes - burning

irritation.

EFFECTS OF CHRONIC EXPOSURE: Dermatitis.

n.av EXPOSURE LIMITS:

IRRITANCY OF PRODUCT: Skin, eyes CARCINOGENICITY: none known SYNERGISTIC PRODUCTS: none known TERATOGENICITY; none known REPRODUCTIVE TOXICITY: none known MUTAGENICITY: none known SENSITIZATION TO PRODUCT: none known

SECTION 7 - PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: Solvent resistant. EYES (SPECIFY): Safety glasses.

FOOTWEAR: Not required. CLOTHING: Not required.

RESPIRATOR: Self contained above TLV.

ENGINEERING CONTROLS: Use mechanical means to keep concentration below TLY, LEAK & SPILL PROCEDURE: Remove sources of ignition, ventilate, absorb with

absorbant, place in closed container.

WASTE DISPOSAL: Dispose of in accordance with Local, Provincial and Federal Regulations.

HANDLING PROCEDURES & EQUIPMENT: n.ap STORAGE REQUIREMENTS: Cool dry area

SPECIAL SHIPPING INFORMATION: Consumer Commodity.

SECTION 8 - FIRST AID MEASURES

 INHALATION: Remove to fresh air, apply artificial respiration if necessary.

: Flush for 15 minutes with large amounts of water.

: Wash affected area with soap and water. Remove contaminated SKIN

clothing.

INGESTION: DO NOT INDUCE VOMITING. Call physician or poison control

centre.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY: Allen Reed DATE: December 15, 1997.

FAX NUMBER: (905) 670-5941 PHONE NUMBER: (905) 670-2291

MSDS

Canadian Centre for Occupational Health and Safety *
* * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 2180373

PRODUCT NAME(S) : ESSO HD ANTIFREEZE < GM6038M>

PRODUCT IDENTIFICATION : MSDS Number: 08513

DATE OF MSDS : 1998-01-20

CURRENCY NOTE : This MSDS was provided to CCOHS in

electronic form on 1999-12-08

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Imperial Oil (Products Division)

ADDRESS : 111 St Clair Avenue West

Toronto Ontario Canada M5W 1K3

Telephone: 416-968-4111

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : Imperial Oil (Products Division)

ADDRESS : 111 St Clair Avenue West

Toronto Ontario Canada M5W 1K3

Telephone: 416-968-4111

*** MATERIAL SAFETY DATA ***

Date Prepared: January 20, 1998

Supersedes: May 17, 1997

MSDS Number: 08513

1. PRODUCT INFORMATION

Product Identifier: ESSO HD ANTIFREEZE < GM6038M>

Application and Use:

Engine antifreeze coolant

Product Description:

A glycol type antifreeze

REGULATORY CLASSIFICATION

WHMIS:

Class D, Division 2, Subdivision A: Very Toxic Material.

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT All components of this product are either on the Domestic Substances List (DSL) or are exempt.

TDG INFORMATION (RAIL/ROAD): Not Regulated in Canada.

Please be aware that other regulations may apply.

TELEPHONE NUMBERS

MANUFACTURER/SUPPLIER:

Emergency 24 hr.

(519) 339-2145 IMPERIAL OIL

Technical Info.

(800) 268-3183 Products Division

111 St Clair Avenue West

Toronto, Ontario

M5W 1K3

(416) 968-4441

2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME

CAS #

Monoethylene Glycol

60-100 V/V

107-21-1 LD50:4.7g/kg,orl,rat

LD50: 9.53 g/Kg,

skin, rabbit

Diethylene glycol

1.0-5.0 V/

111-46-6 LD50:12.5g/Kg,orlhmn

LD50:15g/kg,orl,rat

Sodium Tetraborate Pentahydrate 0.5-1.5 V/ 1330-43-4

3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid

Specific gravity: 1.110 at 16.0 deg C >19.10 cSt at 20 deg C Viscosity:

Vapour Density: 2.15

Boiling Point: 166 deg C

Evaporation rate: <1 (1= n-butylacetate)

Solubility in water: 100.00% Freezing/Pour Point: -37 deg C

11.0 pH:

Odour Threshold: not available Vapour Pressure: <1 kPa at 38 deg C

Appearance/odour: Clear, green liquid, odourless.

NATURE OF HAZARD

INHALATION:

Negligible hazard at normal temperatures (up to 38 deg C). Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs. High vapour concentrations are irritating to the eyes, nose, throat and lungs; may cause headaches and dizziness; may be anesthetic and may cause other central nervous system effects.

Avoid breathing vapours or mists.

EYE CONTACT:

Slightly irritating, but will not injure eye tissue.

SKIN CONTACT:

Low toxicity.
Frequent or prolonged contact may irritate the skin.

INGESTION:

Moderately toxic.

CHRONIC:

Contains ethylene glycol (EG). Repeated high dose exposure to EG by ingestion (animal studies) has caused kidney damage, brain damage, degeneration of the liver, changes in blood chemistry and circulating blood cells. Prolonged and/or repeated exposures may cause similar effects in humans.

Ethylene glycol has been shown to cause developmental and reproductive effects at high dose levels in laboratory animals. The relationship of these results to humans has not been fully established.

This product contains Diethylene Glycol (DEG). Prolonged and repeated exposure through ingestion of DEG may result in toxic effects on the kidney. Contains sodium tetraborate pentahydrate. Studies have shown that sodium tetraborate pentahydrate can cause infertility in laboratory animals.

ACUTE TOXICITY DATA:

Based on animal and human testing data from similar materials and products, the acute toxicity of this product is expected to be: Oral: LD50 > 1300 mg/kg (human)

LD50 > 8500 mg/kg (rat)

OCCUPATIONAL EXPOSURE LIMIT:

Manufacturer recommends:

For diethylene glycol, the Supplier recommends an exposure limit of 10 mg/m3 (aerosol) and 50 ppm (total), based upon the AIHA WEEL.

ACGIH recommends:

For Ethylene Glycol aerosol, a ceiling limit of 39.4 ppm (100 mg/m3).

For sodium tetraborate pentahydrate, 1 mg/m3.

Local regulated limits may vary.

5. FIRST AID MEASURES

INHALATION:

In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Flush with large amounts of water. Use soap if available.

Remove severely contaminated clothing (including shoes) and launder before reuse.

If irritation persists, seek medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

6. PREVENTIVE AND CORRECTIVE MEASURES

PERSONAL PROTECTION:

The selection of personal protective equipment varies, depending upon conditions of use.

In open systems where contact is likely, wear safety goggles, chemicalresistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided.

Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

ENGINEERING CONTROLS:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.



Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Poison. Do not drink this material.

In keeping with good personal hygiene practices, wash hands thoroughly after handling the material.

Store and load at normal (up to 38 deg C) temperature and at atmospheric pressure.

Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

LAND SPILL:

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Recover by pumping or by using a suitable absorbant. Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

WATER SPILL:

Keep public and other shipping traffic away. Prevent additional discharge of material, if possible to do so without hazard. Consult health information and protection section regarding possible hazards.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

7. FIRE AND EXPLOSION HAZARD

Flashpoint and method; 119 deg C COC ASTM D92

Autoignition: 227 deg C Flammable Limits: LEL: 3.2% UEL: 15.3%

GENERAL HAZARDS:

Low Hazard; liquids may burn upon heating to temperatures at or above the flash point.

Toxic gases will form upon combustion.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire.

Use alcohol type foam, dry chemical or water spray to extinguish fire. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide, carbon dioxide under thermal decomposition.

8. REACTIVITY DATA

STABILITY:

This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION:

none

9. NOTES

This MSDS has been revised in Sections 2, 3 and 7.

10. PREPARATION

Date Prepared: January 20, 1998

Prepared by: Lubricants & Specialties

IMPERIAL OIL

Products Division 111 St Clair Avenue West Toronto, Ontario M5W 1K3 (800) 268-3183

CAUTION: "The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseeable, this information cannot be relied upon as complete or applicable. For greater certainty, uses other than those described in Section 1 must be reviewed

BLEACH WASHING CLOTHES

```
LD50 / LC50 - ROUTE AND SPECIES
     LD50 Oral rat 8910 mg/kg body wt
 SODIUM HYDROXIDE
                                          1310-73-2
                            <1
                                                         1824
    LD50 / LC50 - ROUTE AND SPECIES
     LC50 Rat 10500 mg/m3/1 hour
  -----
 SECTION 3--PHYSICAL DATA
PHYSICAL STATE
GAS [ ] LIQUID [X] SOLID [ ]
ODOUR AND APPEARANCE
Clear straw coloured liquid with a strong odour of chlorine.
ODOUR THRESHOLD PPM
.3 (Chlorine)
SPECIFIC GRAVITY (11% SOLIDS)
1.22 @ 15 C.
VAPOUR PRESSURE mm Hg
17.5 @ 20 C.
VAPOUR DENSITY (Air = 1)
Not Applicable
EVAPORATION RATE
Not Applicable
BOILING POINT
Slowly decomposes at 40 C.
MELTING POINT (11% SOLIDS)
-25 c.
% VOLATILE BY VOLUME
Not Applicable
SOLUBILITY IN WATER
Miscible in all concentrations
Variable depending on residual caustic soda present. Consider as dilute
caustic soda.
COEFF. WATER/OIL DIST.
Not Applicable
SECTION 4--FIRE AND EXPLOSION DATA
______
YES [ ] NO [X]
                     IF YES UNDER WHICH CONDITIONS
MEANS OF EXTINCTION
Not Applicable
SPECIAL PROCEDURES
Material is non-flammable, but is decomposed by heat and light causing
pressure build-up in containers which could result in explosion. When heated
or in contact with acids, it may release chlorine. Vigorous reaction with
oxidizable or organic materials result in a fire.
FLASHPOINT AND METHOD
Not Flammable
UPPER EXPLOSION LIMIT
Not Applicable
LOWER EXPLOSION LIMIT
Not Applicable
AUTO IGNITION TEMP.
Not Applicable
HAZARDOUS COMBUSTION PRODUCTS
```

BLEACH WASHING CLOTHES

Wear rubber gloves.

RESPIRATORY (SPECIFY)

Wear NIOSH approved respirator for chlorine or hydrogen chloride. EYES (SPECIFY)

Wear chemical safety goggles and for further protection a face shield. FOOTWEAR (SPECIFY)

Wear high top acid resistant boots.

CLOTHING (SPECIFY)

Wear longsleeve shirt and long trousers. Use a rubber apron for further protection.

OTHER (SPECIFY)

Not Applicable

ENGINEERING CONTROLS

Ventilation should be consistent with generally accepted industrial hygiene and housekeeping practices. Packaging and unloading areas and open processing equipment should be equipped with mechanical exhaust systems.

LEAK AND SPILL PROCEDURE

Ventilate area. Stop and contain leak or spill. Absorb using an inert material (sand, ashes, etc.), collect and dispose. For recover, pump into polyethylene containers. Very small spill may be flushed with large amounts of water.

WASTE DISPOSAL

Consult supplier for specific recommendations for disposal. Waste may have to be disposed of by an approved contractor.

DISPOSER MUST COMPLY WITH FEDERAL, PROVINCIAL, STATE AND LOCAL DISPOSAL LAWS

HANDLING PROCEDURES AND EQUIPMENT

Containers may be under pressure, open cautiously.

STORAGE REQUIREMENTS

Store in a cool dry well ventilated area.

Store away from incompatible materials and direct sunlight.

SPECIAL SHIPPING INFORMATION

SECTION 8--FIRST AID MEASURES

EYES: Flush promptly with lukewarm water for at least 20 minutes and get medical attention. Repeat flushing if necessary.

SKIN: Flush with lukewarm water for at least 20 minutes while removing contaminated clothing. Obtain medical advice immediately.

INGESTION: NEVER give anything by mouth if victim is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240-300mL (8-10oz) of water. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

INHALATION: If breathing has stopped, trained personnel should begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation CPR immediately. Oxygen may be beneficial if administered by a person trained in its use, preferably on a physician's advice. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

SOURCES USED

CCOHS, RTECS, ACGIH

BLEACH WASHING CLOTHES

ADDITIONAL INFORMATION

SECTION 9--PREPARATION DATA

SECTION 3--FREFARATION DATA

PREPARED BY
Laboratory Services Department
ISSUE DATE
1 August 1988

PHONE NUMBER (519) 336-2287 REVISED 1 July 1991

BOUNCE. txt

ROCTOR & GAMBLE -- BOUNCE, SCENTED HOUSEHOLD FABRIC SOFTENER PROCTOR & GAMBLE -- BOUNCE, SCENTED HOUSEHOLD FABRIC SOFTE NER (SU MSDS Safety Information ------FSC: 7930 MSDS Date: 12/07/1993 MSDS Num: CGVCQ LIIN: 00N084876 Product ID: BOUNCE, SCENTED HOUSEHOLD FABRIC SOFTENER (SUPDAT) MFN: 01 Responsible Party Cage: PROCT Name: PROCTOR & GAMBLE Address: 11530 REED HARTMAN HWY City: CINCINNATI OH 45241-2422 Info Phone Number: 800-526-8623 Emergency Phone Number: 800-526-8623 Published: Y Contractor Summary Cage: 60362 Name: PROCTER & GAMBLE Address: 11520 REED HARTMAN HIGHWAY City: CINCINNATI OH 45241-2422 Phone: 513-983-2508 Cage: PROCT Name: PROCTOR & GAMBLE CO (513-562-0796) Address: UNKNOWN Box: 599 City: UNKNOWN NK 00000 Phone: UNKNOWN _______ Ingredients ______ Name: NONIONIC AND CATIONIC FABRIC SOFTENING AGENTS OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N) Cas: 1318-02-1 RTECS #: ZG6800000 Name: ZEOLITES; (ALUMINOSILICATES) OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N) ______ RTECS #: 1000511PU Name: PERFUME OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N)

Name: NON-WOVEN RAVON CLOTH

OSHA PEL: N/K (FP N)

BOUNCE.txt

APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation: MECHANICAL (GENERAL): ACCEPTABLE.

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPRVD EYE WASH & DELUGE SHOWER (FP N).

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: MFR TRADE NAME/PART NO: (OUTDOOR FRESH).

Physical/Chemical Properties

Solubility in Water: LIMITED

Appearance and Odor: OPAQUE WHITE SLITTED SHEETS; MODERN WOODY FRAGRANCE

Percent Volatiles by Volume: 1

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: NONE.

Materials To Avoid: NONE.

Hazardous Decomposition Products: BY PRODUCTS: BURNING CAN PRODUCE CARBO

N

MONOXIDE AND/OR CARBON DIOXIDE.

Hazardous Polymerization Indicator: NO

PROCTER & GAMBLE -- CASCADE (AUTOMATIC DISHWASHING DETERGENT) - DISHWASH ING COMPOUND, MACHINE

PROCTER & GAMBLE -- CASCADE (AUTOMATIC DISHWASHING DETERGENT) - DISHWASH ING COMPOUND, MACHINE

MATERIAL SAFETY DATA SHEET

NSN: 7930006092555

Manufacturer's CAGE: 74188

Part No. Indicator: A

Part Number/Trade Name: CASCADE (AUTOMATIC DISHWASHING DETERGENT)

===

General Information

===

Item Name: DISHWASHING COMPOUND, MACHINE

Company's Name: PROCTER AND GAMBLE

Company's Street: IVORYDALE TECHNICAL CENTER

Company's City: CINCINNATI

Company's State: OH Company's Country: US

Company's Zip Code: 45217

Company's Emerg Ph #: 800-543-0485 Company's Info Ph #: 800-543-0485 Record No. For Safety Entry: 001 Tot Safety Entries This Stk#: 001

Status: SMJ

Date MSDS Prepared: 01FEB90

Safety Data Review Date: 04FEB92

MSDS Serial Number: BMSNQ

Hazard Characteristic Code: N/

===

Ingredients/Identity Information

===

Proprietary: NO

Ingredient: SODIUM MONOHYDROGEN PHOSPHATE HEPTAHYDRATE (2:1:1:7); (SODIU

M

PHOSPHATE)

Ingredient Sequence Number: 01 NIOSH (RTECS) Number: WC4600000

CAS Number: 7682-85-6 OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: PEROXYDICARBONIC ACID, DISODIUM SALT; (SODIUM CARBONATE)

Ingredient Sequence Number: 02 NIOSH (RTECS) Number: SD9920000

CAS Number: 3313-92-6 OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE

CASCADE DISHWASHING COMPOUND. txt

Appearance And Odor: LIGHT BLUE GRANULAR AGGLOMERATE W/LOW LEVEL WHITE GRANULAR ADMIX. PERFUMED. Boiling Point: N/A Vapor Pressure (MM Hg/70 F): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.0 G/CC Evaporation Rate And Ref: NOT APPLICABLE Solubility In Water: APPRECIABLE Fire and Explosion Hazard Data Flash Point: NOT APPLICABLE Lower Explosive Limit: N/A Upper Explosive Limit: N/A Extinguishing Media: CO*2, WATER, OR DRY CHEMICAL. Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). Unusual Fire And Expl Hazrds: NONE. Reactivity Data === Stability: YES Cond To Avoid (Stability): NONE. Materials To Avoid: NONE. Hazardous Decomp Products: NONE. Hazardous Poly Occur: NO Conditions To Avoid (Poly): NOT RELEVANT. Health Hazard Data ______ LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: INGEST: MAY CAUSE VOMITING AND TRANSIENT, MODERATE GI IRRITATION. EYE: MAY CAUSE MODERATE, TRANSIENT IRRITATION. INHAL: HEAVY OR PROLONGED EXPOSURE TO DUST MAY CAUSE TRANSIENT RESPIRATOR TRACT IRRITATION. SKIN: TRANSIENT IRRITATION WITH PROLONGED EXPOSURE TO CONCENTRATED MATERIAL. Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: NOT RELEVANT. Signs/Symptoms Of Overexp: INGEST: MAY RESULT IN NAUSEA, VOMITING, AND/ O

CASCADE DISHWASHING COMPOUND.txt

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI PSN Code: ZZZ

AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

===

Disposal Data

===



Page 1 of 5 Procter & Gamble Fabric and Home Care Division Ivorydale Technical Center 5299 Spring Grove Avenue Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: FH/H/2001/LDLS-522GKL Supersedes: FH/H/2001/LDLS-4XBUK2 Issue Date: 9/7/01
Issue Date: 6/12/01

SECTION I - CHEMICAL PRODUCT

Identity: Granular Laundry Detergent

Brands: CHEER (All variations)

Hazard Rating:

Health: 1

4=EXTREME

Flammability: 0

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

Emergency Telephone Number: 24hr P&G Operator - 1-800-846-7669 or call Local Poison Control Center

SECTION IL COMPOSITION AND INCREDIENTS

Cheer Ingredients/Chemical Name: Biodegradable surfactants and enzymes.

<u>Cheer with Bleach</u> Ingredients/Chemical Name: Biodegradable surfactants, enzymes and a color-safe oxygen bleach.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

| Chemical
Name | Common
Name | CAS No. | Recommended
Limits | Composition Range | LD50/LC50 |
|--------------------------------------|-----------------------|------------|---|-------------------|---------------------------------|
| Sodium carbonate | Soda Ash | 497-19-8 | N/A | 15-40% | LD50=1.86 g/kg
LC50=N/A |
| Linear alkyl
benzene
sulfonate | C12.3 LAS | 68081-81-2 | N/A | 7-13% | LD50=0.65-1.26 g/kg
LC50=N/A |
| Subtilisin | Protealytic
enzyme | 9014-01-1 | NIOSH/
ACGIH STEL:
0.00006
mg/m3 | 0.1-1% | LD50=3.7 g/kg
LC50=N/A |

Under normal consumer use, this product would not constitute a hazardous product under US OSHA Hazard Communication. With increased exposure (compared with consumer use) this mixture, when tested as a whole, is considered an inhalation hazard (enzymes) and an eye irritant within the meaning of the OSHA Hazard Communication Standard.

*Subtilisin is listed on Table Z-1-A (1989 Air Contaminants Rule - 29 CFR 1910.1000). Though Table Z-1-A was revoked on 6/30/93, the following U.S. states continue to enforce Table Z-1-A limits: Alaska, Connecticut, Michigan, Minnesota, New York, Tennessee, Vermont and Washington. The OSHA STEL (as listed on Table Z-1-A) is 0.00006 mg/m3.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Minimize dust levels while collecting product (see "Inhalation" health effects). Prevent exposure to dust with NIOSH approved respirators with HEPA filters. Use gloves to minimize skin contact,

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL. STATE AND LOCAL REGULATIONS. Household solutions may be disposed of in sewer. Dry product may be landfilled if permitted by local regulations. Discard empty container in trash.

Steps To Be Taken in Case Material is Released or Spilled: Flush small quantities down acceptable sanitary/process sewer. Wipe up small spills with a damp cloth. Dispose of according to local regulations,

SECTION AT HANDRING AND STORAGE

Precautions To Be Taken in Handling and Storing: Avoid skin contact and breathing product dust. Store in a cool, dry place. Keep product dry to maintain free-flowing granules.

Other Precautions: None

SECTION ATHERS PERSONAL PROTECTION:

Respiratory Protection (Specify Type): None required with normal consumer use. Industrial use may require a NIOSH approved respirator with HEPA filters.

Local Exhaust: None required with normal consumer use. Ventilation

Special: None

Industrial use may require LEV.

Mechanical (General): General dilution ventilation is adequate

Other: None

with normal consumer use.

Eye Protection: None required with normal consumer use.

Industrial setting: If a splash of product in solution is likely, chemical goggles may be needed.

Protective Gloves: None required with normal consumer use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for any prolonged direct contact.

Other Protective Equipment: None required with normal consumer use.

Industrial Setting: Protective disposable suits may be required under heavy industrial dust conditions.

SECTION EX-PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: N/A Specific Gravity (H2O=1): N/A

Vapor Pressure (mm Hg): N/A Percent Volatile by Volume (%): N/A

Vapor Density (Air=1): N/A Evaporation Rate (nBuOAc=1): N/A

Odor Threshold: N/A Reserve Alkalinity: 4-5

Coefficient of Water/Oil Distribution: N/A pH (10% solution): 10 - 11

Scooped Density: ~590 - 663 g/L Solubility in Water: Mostly

Cheer Appearance and Odor: White granular Cheer w/ Bleach Appearance and Odor: White agglomerate. Product is perfumed. granular agglomerate with blue speckles. Product is

perfumed.

SECTION XVI. OTHER INFORMATION

*N/A. - Not Applicable

*N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.

CLOROX .txt

THE CLOROX -- CLOROX 2 - BLEACH, LAUNDRY THE CLOROX -- CLOROX 2 - BLEACH, LAUNDRY

MATERIAL SAFETY DATA SHEET

THE CLOROX AS OF January 1999

NSN: 6850010141324

Manufacturer's CAGE: 93098

Part No. Indicator: B

Part Number/Trade Name: CLOROX 2

General Information

Item Name: BLEACH, LAUNDRY Company's Name: THE CLOROX CO Company's Street: 7200 JOHNSON DR

Company's City: PLEASANTON

Company's State: CA Company's Country: US

Company's Zip Code: 94566

Company's Emerg Ph #: 303-573-1014 Company's Info Ph #: 415-847-6100 Record No. For Safety Entry: 006 Tot Safety Entries This Stk#: 007

Status: SMJ

Date MSDS Prepared: 01MAY90 Safety Data Review Date: 21FEB95

MSDS Serial Number: BWRCG

Hazard Characteristic Code: NK

Ingredients/Identity Information

Proprietary: NO

Ingredient: PERBORIC ACID, SODIUM SALT, TETRAHYDRATE; (SODIUM PERBORATE

Ingredient Sequence Number: 01

Percent: 5-25

NIOSH (RTECS) Number: SC7350000

CAS Number: 10486-00-7 OSHA PEL: N/K (FP N) ACGIH TLV: N/K (FP N)

Proprietary: NO

Ingredient: BACILLUS SUBTILIS BPN; (SUBTILISINS - PROTEOLYTIC) CONTAININ

G

INGS 3 & 4

Ingredient Sequence Number: 02

Percent: 0.5-2

NIOSH (RTECS) Number: CO9450000

CAS Number: 1395-21-7 OSHA PEL: C 0.00006 MG/M3 ACGIH TLV: C 0.00006 MG/M3

CLOROX .txt Conditions To Avoid (Poly): NOT RELEVANT. _______ Health Hazard Data _______ LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES Health Haz Acute And Chronic: MODERATE EYE IRRITANT. HARMFUL IF SWALLOWE D. INHALATION OF LARGE QUANTITIES OF DUST MAY CAUSE SENSITIZATION. SENSITIZATION SYMPTOMS MAY RANGE FROM HAY FEVER TO ASTHMA. Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO Explanation Carcinogenicity: NOT RELEVANT. Signs/Symptoms Of Overexp: SEE HEALTH HAZARDS. Med Cond Aggravated By Exp: NONE. Emergency/First Aid Proc: SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD (FP N). EYE: FLUSH WITH WATER FOR @ LEAST 15 MINUTES. INGEST: DRINK GLASSF OF WATER & CALL PHYS. INHAL: REMOVE TO FRESH AIR IF BREATHING PROBLEMS DEVELOP. IF BREATHING PROBLEMS PERSIST, SEEK PROMPT MEDICAL ATTENTION. ______ === Precautions for Safe Handling and Use ________ Steps If Matl Released/Spill: RINSE WITH WATER. FLUSH SM QTYS (LESS THAN LBS) DOWN DRAIN W/PLENTY OF WATER. FOR LARGER QTYS DISPOSE OF I/A/W LOCA STATE AND FEDERAL REGULATIONS. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. Waste Disposal Method: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS (FP N). Precautions-Handling/Storing: KEEP OUT OF REACH OF CHILDREN. AVOID MAKIN DUST. STORE IN COOL, DRY AREA. KEEP AWAY FROM HEAT & ACIDS WHEN STORED I N LARGE QUANTITIES. Other Precautions: AVOID SKIN AND EYE CONTACT AND INHALATION OF DUST. ______

Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation: USE GENERAL VENTILATION TO MINIMIZE EXPOSURE TO DUST.

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: ANSI APPRVD SAFETY GLASSES (FP N).



Page 1 of 4
Procter & Gamble
CPG TN 6
2 Procter & Gamble Plaza
Cincinnati, OH 45202

MATERIAL SAFETY DATA SHEET

Supersedes: N/A Issue Date: 2/1/00
Issue Date: N/A

SIX THOM IS CHIMMICAL PRODUCT

Identity: Liquid Disinfecting Bathroom Cleaner

Brands: COMET DISINFECTING BATHROOM CLEANER (Professional Line)

Hazard Rating: 1

Health: 1

4=EXTREME

Flammability:

3=HIGH

Reactivity:

2= MODERATE

1=SLIGHT

Emergency Telephone Number: 24hr P&G Operator - 1-513-983-1100 or call Local Poison Control Center

SECTION II - COMPOSTITION AND INCREDIENTS

Ingredients/Chemical Name: Cleaning agents (dipropylene glycol butyl ether, citric acid), quality control agents, perfume, and water.

This mixture, when tested as a whole, is considered an eye irritant within the meaning of the OSHA Hazard Communication Standard

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

| Chemical
Name | Common
Name | CAS No. | Recommended Limits | Composition
Range | LD50/LC50 |
|------------------|----------------|---------|--------------------|----------------------|-----------|
| None | | | | | 2 |
| | | | | | |

SECTION III MAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Ingestion:

Mild mucous membrane irritant.

Eye Contact:

Mild eye irritant.

Inhalation:

Mild respiratory irritant.

Skin:

Mild skin irritant.

Signs and Symptoms of Exposure:

Ingestion:

Oral ingestion may result in gastrointestinal irritation with nausea, vomiting and diarrhea.

Eye Contact:

Instillation into the eye may result in transient mild to moderate irritation.

Skin:

Use on irritated or extremely dry skin may aggravate the existing condition

Inhalation:

May cause mild irritation

SECTION VI - ACCORDANT ALTRIBUASE MEASURES :

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Do not landfill. Small (household) quantities may be disposed of via sewer.

Steps To Be Taken in Case Material is Released or Spilled: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak.

SECTIONAL HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Handing and storage must be well ventilated, cool and dry. Materials must be isolated from potential sources of ignition. Fire fighting equipment must be available at all times.

Other Precautions: Keep away from heat/sparks and open flame.

SECTION VIII = EXPOSURE CONTROLS PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation Local Exhaust: None required with normal use,

Special: None

Mechanical (General): Acceptable.

Other: None

Eye Protection: None required with normal use.

Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is desirable.

Protective Gloves: None required with normal use.

Other Protective Equipment: None required with normal use.

SECTION IX -PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Specific Gravity (H₂O=1): 1.030-1.045

Percent Volatile by Volume (%): N/A

Evaporation Rate (nBuOAc=1): N/A

Odor Threshold: N/A Freezing Point: N/A

Coefficient of Water/Oil Distribution: N/A pH (1% solution): Unknown
Scooped Density: N/A Solubility in Water: Completely

Appearance and Odor: Clear liquid. Product is Reserve Alkalinity: N/A

perfumed.

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: None known

Other Recommendations: None