

SUNSHINE MAKERS, INC. -- SIMPLE GREEN CLEANER/DEGREASER 13012

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MSDS Safety Information
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FSC: 7930
NIIN: 01-342-5315
MSDS Date: 03/01/1999
MSDS Num: CKXVG
Product ID: SIMPLE GREEN CLEANER/DEGREASER 13012
MFN: 01
Responsible Party
Cage: 1Z575
Name: SUNSHINE MAKERS, INC.
Address: 15922 PACIFIC COAST HIGHWAY
City: HUNTINGTON HARBOUR CA 92649
Info Phone Number: 800-228-0709/562-795-6000
Emergency Phone Number: 800-255-3924
Resp. Party Other MSDS No.: 1006
Preparer's Name: RESEARCH & DEVELOPMENT
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 1Z575
Name: SUNSHINE MAKERS, INC.
Address: 15922 PACIFIC COAST HIGHWAY
City: HUNTINGTON HARBOUR CA 92649
Phone: 800-228-0709/562-795-6000
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Item Description Information
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Item Manager: GSA
Item Name: CLEANING COMPOUND,SOLVENT-DETERGENT
Unit of Issue: BX
Quantitative Expression: 00000000012EA
UI Container Qty: B
Type of Container: PLASTIC
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Ingredients
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Cas: 111-76-2
RTECS #: KJ8575000
Name: BUTYL CELLOSOLVE. (UNDILUTED 2-BU

TOXYETHANOL)

< Wt: 6.

OSHA PEL: 25 PPM (SKIN)

ACGIH TLV: 25 PPM (SKIN)

ACGIH STEL: NOT ESTABLISHED

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Health Hazards Data
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LD50 LC50 Mixture: ORAL LD50(RAT)>5.0 G/KG LD50(RABBIT)>2.0

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: MILD EYE IRRITANT. REDDENING MAY DEVELOP. SKIN: MILD IRRITATION

. MINIMAL EFFECTS. REVERSIBLE REDDENING MAY OCCUR IN SOME DERMAL-SENSITIVE USERS. INGESTION: ESSENTIALLY NON-TOXIC. INHALATION: NON-TOXIC . EXPOSURES TO CONCENTRATE-MIST MAY CAUSE MILD IRRITATION OF NASAL PASSAGES OR THROAT. MUCOUS MEMBRANES MAY BECOME IRRITATED BY CONCENTRATE-MIST. ADVERSE EFFECTS ON HUMAN HEALTH ARE NOT EXPECTED FROM SIMPLE GREEN, BASED UPON TWENTY YEARS OF USE WITHOUT REPORTED ADVERSE HEALTH INCIDENCE IN DIVERSE POPULATION GROUPS, INCLUDING EXTENSIVE USE BY INMA

TES OF

U.S. FEDERAL PRISONS IN CLEANING OPERATIONS. (SIGNS/SYMPTOMS OF OVEREXPOSURE).

Explanation Of Carcinogenicity: NON-MUTAGENIC AND NON-CARCINOGENIC. NONE OF THE INGREDIENTS IN SIMPLE GREEN ARE REGULATED OR LISTED AS POTENTIAL CANCER AGENTS BY OSHA, NTP, OR IARC.

Signs And Symptions Of Overexposure: ACUTE/CHRONIC (CONT'D): EXPOSURE LIMITS: SIMPLE GREEN FORMULATION PRESENTS NO HEALTH HAZARDS TO USER WHEN USED ACCORDING TO LABEL DIRECTIONS FOR ITS INTENDED PURPOSES. CHRONIC: REPEA

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DAILY APPLICAT ION TO SKIN W/O RINSING OR CONTINUOUS CONTACT OF PRODUCT ON SKIN MAY LEAD TO TEMPORARY, BUT REVERSIBLE, IRRIT. SIMPLE GREEN IS NOT LIKELY TO IRRITATE SKIN IN MAJORITY OF USERS. ANIMAL STUDIES CLEARLY DEMONSTRATED DOSE-RELATED ADVERSE EFFECTS ON CNS, HEMOTOPOIETIC TISSUES, BLOOD, KIDNEY & LIVER, ASSOCIATED W/ADMIN OF ETHYLENE GLYCOL MONOBUTYL ETHER & ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE. (EXTRA CTED FROM DHHS (NIOSH) PUB NO. 90-118)

Medical Cond Aggra

ated By Exposure: NO AGGRAVATION OF EXISTING MEDICAL CONDITIONS IS EXPECTED; DERMAL-SENSITIVE USERS MAY REACT TO DERMAL CONTACT BY SIMPLE GREEN.

First Aid: EYE: IMMEDIATELY RINSE WITH LARGE QUANTITIES OF WATER; CONTINUE 10-15 MINUTES OR UNTIL MATERIAL REMOVED; REMOVE CONTACT LENSES, IF PRESENT, AND LIFT EYELIDS DURING RINSING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: RINSE SKIN WITH WATER, RINSE SHOES AND LAUNDRY CLOTHING BEFORE REUSE. THOROUGHLY RINSE AREA AND GET MEDICAL ATTENTION IF REACTION PERSISTS. SWALLOWING: GIVE SEVERAL GLASSES OF WATER TO DILUTE; DO NOT INDUCE VOMITING. IF STOMACH UPSET OCCURS, SEE PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

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Handling and Disposal
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Spill Release Procedures: RECOVER USABLE MATERIAL BY CONVENIENT METHOD; RESIDUAL MAY BE REMOVED BY WIPE OR WET MOP. IF NECESSARY, UNRECOVERABLE MATERIAL MAY BE WASHED TO DRAIN WITH LARGE QUANTITIES OF WATER.

Waste Disposal Methods: SIMPLE GREEN IS FULLY WATER SOLUBLE AND BIODEGRADABLE AND WILL NOT HARM SEWAGE-TREATMENT MICROORGANISMS IF DISPOSAL BY SEWER OR DRAIN IS NECESSARY. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

Handling And Storage Precautions: NO SPECIAL PRECAUTIONS ARE REQ. THIS PRODUCT IS NON-HAZARDOUS FOR STORAGE AND TRANSPORT ACCORDING TO D.O.T. REGULATION. SIMPLE

GREEN RESIDUES CAN BE COMPLETELY REMOVED BY RINSING WITH WATER; CONTAINER MAY BE RECYCLED OR APPLIED OTHER USES. POLYIMIDE INSULATED WIRING NOT AFFECTED (OTHER PRECAUTION).

Other Precautions: HANDLING/STORAGE (CONTD): BY EXPOSURE TO SIMPLE GREEN. AFTER IMMERSION IN SIMPLE GREEN FOR 14 DAYS AT 74F, THE 61 CM PIECE OF POLYIMIDE INSULATED WIRE PASSED A ONE MINUTE DIELECTRIC PROOF TEST AT 2500 VOLTS (ASTM D-149).

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Fire and Explosio
n Hazard Information
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Flash Point Text: NOT FLAMMABLE

Autoignition Temp Text: NOT FL

Lower Limits: NOT FLAMMABLE

Upper Limits: NOT FLAMMABLE

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N). SIMPLE GREEN IS STABLE, NOT FLAMMABLE AND WILL NOT BURN.

Fire Fighting Procedures: USE NIOSH-APPROVED SELF-CONTAINING BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: NOT FLAMMABLE/NON-EXPLOSIVE.

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Control Measures
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Respiratory Protection: A NIOSH APPROVED RESPIRATOR APPROPRIATE FOR THE EXPOSURE OF CONCERN (FP N). NO SPECIAL PRECAUTIONS (MFR).

Ventilation: NO SPECIAL VENTILATION IS REQUIRED DURING USE.

Protective Gloves: IMPERVIOUS GLOVES (FP N).

Eye Protection: CAUTION, INCLUDING REASONABLE EYE PROTECTION, SHOULD ALWAYS BE (OTHER PROT).

Other Protective Equipment: EYE PROTEC

TION (CONT'D): USED TO AVOID EYE CONTACT

WHERE SPLASHING MAY OCCUR. ANSI APPROVED CHEMICAL SAFETY GOGGLES (FP N).

EYEWASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

Work Hygienic Practices: NO SPECIAL PRECAUTIONS REQUIRED; RINSE COMPLETELY FROM SKIN AFTER CONTACT. WASH OR RINSE HANDS BEFORE TOUCHING EYES OR CONTACT LENSES.

Supplemental Safety and Health: PRECAUTIONARY MEASURES: NO SPECIAL REQUIREMENTS UNDER NORMAL USE CONDITIONS. DETECTION: SIMPLE GREEN HAS A CHARACTERISTI

C

SASSAFRAS ODOR THAT IS NOT INDICATIVE OF ANY HAZARDOUS SITUATION.

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Physical/Chemical Properties
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Boiling Point: =110.C, 230.F

B.P. Text: 110C - 231F

Melt/Freeze Pt: =-9.C, 15.8F

M.P/F.P Text: -9C/16F

Vapor Pres: 17 MM HG @20C, 22MMHG@25C

Vapor Density: 1.3(AIR=1)

Spec Gravity: 1.0257

PH: 9.5 CONCENTRATE

Evaporation Rate & Reference: >1 (BUTYL ACETATE=1)

Solubility in Water: COMP

LETELY SOLUBLE

Appearance and Odor: TRANSLUCENT GREEN LIQUID WITH CHARACTERISTIC SASSAFRAS ODOR.

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: NONREACTIVE: SIMPLE GREEN IS STABLE, EVEN UNDER FIRE CONDITIONS AND WILL NOT REACT WITH WATER OR OXIDIZERS.

Materials To Avoid: N/P.

Hazardous Decomposition Products: N/P.

Hazardous Polymerization Indicator: NO

Cond

itions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information
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Toxicological Information: ORAL LD50 (RAT): >5.0G/KG BODY WEIGHT, DERMAL LD50 (RABBIT): >2.0G/KG BODY WEIGHT. DERMAL IRRIT: ONLY MILD BUT REVERSIBLE, IRRIT WAS FOUND IN A STANDARD 72 HR TEST ON RABBITS. A VALUE OF 0.2(NON-IRRIT) WAS FOUND ON SCALE OF 8. EYE IRRIT: W/OR W/OUT RINSING W/H2O, THE IRRIT SCORES IN RABBITS AT 24 HR DID NOT EXCEED 15 (MILD IRRIT) ON SCALE OF 110. SUBCHRONIC DERMAL EFTS: NO ADVERSE EFTS EXCEPT REVER SIBLE DERMAL IRRIT, WERE FOUND IN RABBIT EXPOS TO SIMPLE GREEN (UP TO 2.0 G/KG/DAY FOR 13 WEEKS) APPLIED TO SKIN OF 25 MALES & 25 FEMALES. ONLY FEMALE BODY WEIGHT GAIN WAS AFFECTED. DETAILED MICROSCOP IC EXAMINATION OF ALL MAJOR (STATE).

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Ecological Information
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Ecological: BIODEGRADABILITY: SIMPLE GREEN IS READILY DECOMPOSED BY NATURALLY OCCURING MICROORGANISMS. THE BIOLOGICAL OXYGEN DEMAND (BOD), AS A % OF THE CHEM OXYGEN DEMAND (COD) AFTER 4,7&11 DAYS WAS 56%,60%&70%, RESPECTIVELY. PER OECD CLOSED BOTTLE TEST, SIMPLE GREEN MEETS OECD & EPA RECOMMENDATIONS FOR READY BIODEGRADABILITY. IN A STANDARD BIODEGRADATION TEST W/SOILS FROM 3 DIFFERENT COUNTRIES, BUTYL CELLOS OLVE REACHED 50% DEGRADATION IN 6 TO 23 DAYS, DEPENDING UPON SOIL TYPE & EXCEEDED RATE OF DEGRADATION FOR GLUCOSE WHICH WAS USED AS A CONTROL FOR COMPARISON. ENVIRON TOXCICITY INFO: SIMPLE GREEN IS CO NSIDERED PRACTICALLY NONTOXIC (FED REGS)

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MSDS Transport Information
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Transport Information: PRODUCT IS NON-HAZARDOUS FOR STORAGE/TRANSPORT ACCORDING TO U.S. DEPT OF TRANSPORTATION REQ. SIMPLE GREEN REQUIRES NO SPECIAL LABELING/PLACARDING TO MEET U.S. DEPARTMENT OF TRANS REQ. UN NUMBER: NOT R EQUIRED.DANGEROUS GOODS CLASS: NONHAZARDOUS. OTHER INFO (CONT'D): SALT CONCENTRATIONS IN MARINE ECOSYSTEMS WILL LEAD TO COMPLEXES W/SIMPLE GREEN THAT MAY BECOME VISIBLE @ RATIOS ABOVE 1 PART SIMPLE GR EEN TO 99 PARTS SEAWATER. ASH CONTENT: AT 600F: 1.86% BY WEIGHT. NUTRIENT CONTENT: NITROGEN: <1.0% BY WT (FUSION & QUALITATIVE TEST FOR AMMONIA). PHOSPHORUS: 0.3% BY FORMULA. SULFUR: 0.6% BY WT (BARIU M CHLOR

IDE PRECIPITATION METHOD).

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Regulatory Information
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Sara Title III Information: THE CELLOSOLVE IN SIMPLE GREEN IS PART OF A CHEMICAL CATEGORY (GLYCOL ETHERS) REGULATED BY THE EMRGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT SARA, TITLE III, SECTION 313); THEREFORE A REPORTING RE QUIREMENT EXISTS. BASED UPON CHEMICAL ANALYSIS, SIMPLE GREEN CONTAINS NO KNOWN EPA PRIORITY POLLUTAN TS, HEAVY METALS, OR CHEMICALS (LISTED UNDER RCRA, CERCLA OR CWA. ANALYSIS BY TCLP (TOXICITY CHRACTE RISTIC LEACHING PROCEDURE) ACCORDING TO RCRA REVEALED NO TOXIC ORGANIC OR INORGANIC CONSTITUENTS.

Federal Regulatory Information: ALL COMPONENTS OF SIMPLE GREEN ARE LISTED ON THE TSCA CHEMICAL SUBSTANCE INVENTORY. ECOLOGICAL (CONTD): PER EPA'S AQUATIC TOX SCALE. SIMPLE GREEN IS NON LETHAL TO ANY OF MARINE & ESTUARINE TEST ANIMA LS LISTED: LC50 IN MG/L(PPM):(48 HR) MARINE FISH: MU D MINNOW(FUNDULUS HETEROCLIUS)- 1690 (96 HR) 1574. WHITEBAIT(GALAZIAS MACULALUS)-(48 HR-210), (96 HR-210). MARINE/ESTUARINE INVERTEBRATES: BRINE SHR IMP (ARTEMIA SALINA): (48 HR) 610, (96 HR) 399, GRASS SHRIMP (PALAEMONETES PUGIO) (48 HR)-270, (96 HR) 220. GREEN-LIPPED MUSSEL (PEMA CANALLACULUS) (48 HR) - 220, (96 HR) 220. MUD SNAIL (POTAMOPYRGUS ESTUARINUS) (48 HR-410), (96 HR-350).

State Regulatory Information: TOXICOLOGICAL INFO (CONTD):TISSUES SHOWED NO ADVERSE CHANGES. FERTILI TY ASSESSMENT BY CONTINUOUS BREEDING: PRODUCT FORMULATION HAD NO ADVERSE EFT ON FERTILITY & REPRO IN CD-1 MICE W/CONTINUOUS ADMIN F OR 18 WEEKS, & HAD NO ADVERSE EFT ON REPRO PERFORMANCE OF OFFSPRING. THE ONLY INGRED OF SIMPLE GREEN W/ESTABLISHED EXPOS LIMITS IS UNDILUTED 2-BUTOXYETHANOL (<6%) (BUTYL CELLOSOLVE). NOTE: BUTYL CELLO SOLVE IS ONLY ONE OF THE RAW MATL INGRED THAT UNDERGO PROCESSING & DILUTION DURING MFR OF SIMPLE GRE EN. UPON COMPLETION OF MFR PROCESS SIMP LE GREEN DOES NOT POSSESS THE OCCUPATIONAL HEALTH RISK ASSOC W/EXPOS TO UNDILUTED BUTYL CELLOSOLVE.

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Other Information
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Other Information: USE OF PRODUCT: ALL-PURPOSE CLEANER/DEGREASER USED UNDILUTED OR DILUTED IN WATER FOR DIRECT/SPRAY & DIP TANK PROCEDURES. PHYSICAL/CHEMICAL: DENSITY: 8.5 LB/GAL. VOC COMPOSITE PARTIAL PRESSURE: 0.006 M M HG@20C.VOLATILE ORGANIC COMPOUNDS

(VOCS): 7.96 G/L PER ASTM METHOD
3960-90. PER CALIFORNIA AQMD'S VOC TEST METHOD, PROD MUST BE DILUTED AT LEAST
2 PARTS OF H2O TO 1 PART SIMPLE GREEN IN ORDER TO MEE T SCAQMD RULE 1171,RULE
1122 & BAAOMD REG 8-16 VOC RQMTS FOR SOLVENT CLEANING OPERATIONS. IF
PRODUCT FREEZES, IT WIL RECONSTITUTE WITHOUT LOSS OF EFFICACY WHEN BROUGHT
BACK TO ROOM TEMP & AGITATED. WA TER SOLUBILITY: THE HIGHER(TRANSPORT)

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HAZCOM Label

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Product ID: SIMPLE GREEN CLEANER/DEGREASER 13012

Cage: 1Z575

Company Name: SUNSHINE MAKERS, INC.

Street: 15922 PACIFIC COAST HIGHWAY

City: HUNTINGTON HARBOUR CA

Zipcode: 92649

Health Emergency Phone: 800-255-3924

Label Required IND: Y

Date Of Label Review: 01/17/2001

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Co

ntact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE: EYE: MILD IRRIT. REDDENING MAY DEVELOP. SKIN:
MILD IRRIT. INGEST: ESSENTIALLY NON-TOXIC. INHAL: NON-TOXIC. EXPOSURE TO
CONCENTRATE-MIST MAY CAUSE MILD IRRIT OF NASAL PASSAGES/THROAT/MUCOUS MEM
BRANES. ADVERSE EFFECT ON HUMAN HEALTH ARE NOT EXPECTED FROM SIMPLE GREEN,
BASED UPON TWENTY YEARS OF USE WITHOUT REPORTED ADVERSE HLTH INCIDENCE IN
DIVERSE POPULATION GROUPS. CHRONIC: SKIN: IRRIT. AN I

MAL STUDIES CLEARLY

DEMONSTRATED DOSE-RELATED ADVERSE EFFECT ON CNS, HEMOTOPOIETIC TISS, BLOOD,
KIDNEY & LIVER, ASSOC W/ADMIN OF ETHYLENE GLYCOL MONOBUTYL ETHER &
ETHYLENE GLYCOL MONOBUTYL ETHER ACET ATE. (EXTRACTED FROM DHHS (NIOSH) PUB
NO. 90-118).

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