

SUNSHINE MAKERS, INC. -- SIMPLE GREEN CLEANER/DEGREASER 13005

MSDS Safety Information

FSC: 7930

NIIN: 01-306-8369

MSDS Date: 03/01/1999

MSDS Num: CKXVF

Product ID: SIMPLE GREEN CLEANER/DEGREASER 13005

MFN: 02

Responsible Party

Cage: 1Z575

Name: SUNSHINE MAKERS, INC.

Address: 15922 PACIFIC COAST HIGHWAY

C

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

Contractor Summary

Cage: 1Z575

Name: SUNSHINE MAKERS, INC.

Address: 15922 PACIFIC COAST HIGHWAY

City: HUNTINGTON HARBOUR CA 92649

Phone: 800-228-0709/562-795-6000

Item Description Information

Item Manager: GSA

Item Name: CLEANING COMPOUND,SOLVENT-DETERGENT

Unit of Issue: BX

Quantitative Expression: 00000000006EA

UI Container Qty: 0

Ingredients

Cas: 111-76-2

RTECS #: KJ8575000

Name: BUTYL CELLOSOLVE. (UNDILUTED 2-BUTOXYETHANOL)

< Wt: 6.

OS

HA PEL: 25 PPM (SKIN)
ACGIH TLV: 25 PPM (SKIN)
ACGIH STEL: NOT ESTABLISHED

=====

Health Hazards Data

=====

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 INMATES OF U.S. FEDERAL PRISON

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 Symptoms 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: REPEATED DAILY APPLICATION 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, HEMATOPOIETIC TISSUES, BLOOD, KIDNEY & LIVER, ASSOCIATED W/ADMIN OF ETHYLENE GLYCOL MONOBUTYL ETHER & ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE. (EXTRACTED FROM DHHS (NIOSH) PUB NO. 90-118)

Medical Condition Aggravated By Exposure: NO AGGRAVATION

ATION 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 P

PERSISTS. SWALLOWING: GIVE SEVERAL GLASSES WATER TO DILUTE; DO NOT INDUCE VOMITING. IF STOMACH UPSET OCCURS, SEE PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

=====

Handling and Disposal

=====

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).

=====

Fire and Explosion Hazard Information

=====

=====

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.

=====

=====

Control Measures

=====

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 PROTECTION (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 CHARACTERISTIC SASSAFRAS ODOR THAT IS N

OT INDICATIVE OF ANY HAZARDOUS SITUATION.

=====

Physical/Chemical Properties

=====

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: COMPLETELY SOLUBLE

Appearance an

d Odor: TRANSLUCENT GREEN LIQUID WITH CHARACTERISTIC SASSAFRAS ODOR.

=====

Reactivity Data

=====

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

Conditions To Avoid Polymerizati

on: WILL NOT OCCUR.

=====

Toxicological Information

=====

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).

=====

Ecological Information

=====

Ecological:

BIODEGRADABILITY: SIMPLE GREEN IS READILY DECOMPOSED BY NATURALLY OCCURRING 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 & p; 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)

=====

MSDS Transport Information

=====

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 CHLORIDE PRECIPITATION METHOD).

=

=====
Regulatory Information
=====

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 POLLUTANTS, HEAVY METALS, OR CHEMICALS (LISTED UNDER RCRA, CERCLA OR CWA. ANALYSIS BY TCLP (TOXICITY CHARACTERISTIC 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 (CONT'D): PER EPA'S AQUATIC TOX SCALE. SIMPLE GREEN IS NON LETHAL TO ANY OF MARINE & ESTUARINE TEST ANIMALS LISTED: LC50 IN MG/L(PPM):(48 HR) MARINE FISH: MUD MINNOW(FUNDULUS HETEROCLOTUS)- 1690 (96 HR) 1574. WHITEBAIT(GALAZIAS MACULATUS)-(48 HR-210), (96 HR-210). MARINE/ESTUARINE INVERTEBRATES: BRINE SHRIMP (ARTEMIA SALINA): (48 HR) 610, (96 HR) 399, GRASS SHRIMP (PALAEMONETES PUGIO) (48 HR)-270, (96 HR) 220. GREEN-LIPPED MUSSEL (Perna canaliculus) (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. FERTILITY ASSESSMENT BY CONTINUOUS BREEDING: PRODUCT FORMULATION HAD NO ADVERSE EFFECT ON FERTILITY & REPRO IN CD-1 MICE W/CONTINUOUS ADMIN FOR 18 WEEKS, & HAD NO ADVERSE EFFECT ON REPRO PERFORMANCE OF OFFSPRING. THE ONLY INGREDIENT OF SIMPLE GREEN W/ESTABLISHED EXPOS LIMITS IS UNDILUTED 2-BUTOXYETHANOL (<6%) (BUTYL CELLOSOLVE). NOTE: BUTYL CELLOSOLVE IS ONLY ONE OF THE RAW MATERIAL INGREDIENT THAT UNDERGO PROCESSING & DILUTION DURING MFR OF SIMPLE GREEN. UPON COMPLETION OF MFR PROCESS SIMPLE GREEN DOES NOT POSSESS

THE OCCUPATIONAL HEALTH RISK ASSOCIATED W/EXPOS TO UNDILUTED BUTYL CELLOSOLVE.

=====
Other Information
=====

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 MM HG@20C.VOLATILE ORGANIC COMPOUNDS (VOCs): 7.96 G/L PER ASTM METHOD

=====
Other Information
=====

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 MM HG@20C.VOLATILE ORGANIC COMPOUNDS (VOCs): 7.96 G/L PER ASTM METHOD

ETHOD

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)

HAZCOM Label

Product ID: SIMPLE GREEN CLEANER/DEGREASER 13005

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

Contact Hazard: Slight

Fire Ha

zard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE: EYE: MILD IRRIT. REDDENING MAY DEVELOP. SKIN: MILD IRRIT. INGEST: ESSENTIALLY NON-TOXIC. INHAL: NON-TOXIC. EXPOSURES TO CONCENTRATE-MIST MAY CAUSE MILD IRRIT OF NASAL PASSAGES/THROAT/MUCOUS MEMBRANES. ADVERSE EFFECTS ON HUMAN HEALTHARE NOT EXPECTED FROM SIMPLE GREEN, BASED UPON TWENTY YEARS OF USE WITHOUT REPORTED ADVERSE HLTH INCIDENCE IN DIVERSE POPULATION GROUPS. CHRONIC: SKIN: IRRIT. AN IMAL STUDIES CLEARLY DEMONS

TRATED 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).

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoe

ver expressly or implied

warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and as

sume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.