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MSDS

**Common Name:** CRYSTAL SIMPLE GREEN INDUSTRIAL CLEANER AND DEGREASER

**Manufacturer:** SUNSHINE MAKERS

**MSDS Revision Date:** 1/1/2012

**Grainger Item Number(s):** 2U298, 3U498, 3U499, 3U500, 3U501, 3UP37, 3UP38, 3UP39, 3UP40, 6CMV0, 6CMV1

**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

CRYSTAL SIMPLE GREEN(R\*) INDUSTRIAL CLEANER/DEGREASER  
SIMPLE GREEN(R\*) SAFETY TOWELS

VERSION NO.: 19128-12A

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ANSI-Z400.1-2003 FORMAT

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION



PRODUCT NAME: CRYSTAL SIMPLE GREEN(R\*) INDUSTRIAL CLEANER AND DEGREASER

ADDITIONAL NAMES: SIMPLE GREEN(R\*) SAFETY TOWELS (FLUID ONLY)

MANUFACTURER'S PART NUMBER: \*PLEASE REFER AT THE END OF THIS MSDS.

COMPANY:

SUNSHINE MAKERS, INC.  
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HUNTINGTON BEACH, CA 92649  
USA

TELEPHONE:

800-228-0709  
562-795-6000

FAX: 562-592-3830

EMERGENCY PHONE:

CHEM-TEL 24-HOUR EMERGENCY SERVICE: 800-255-3924

## SECTION 2: HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION.

IRRITANT. THIS IS A CLEAR COLORED LIQUID WITH A CHEMICAL/DETERGENT ODOR.  
SAFETY TOWELS ARE INFUSED WITH A DILUTED VERSION OF MIXTURE.

NFPA:

1  
0  
0  
0

NFPA/HMIS RATING:

HEALTH 1 = SLIGHT  
FIRE, REACTIVITY, AND SPECIAL 0 = MINIMAL

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: MILDLY IRRITATING.

SKIN CONTACT:

NO ADVERSE EFFECTS EXPECTED UNDER TYPICAL USE CONDITIONS. PROLONGED  
EXPOSURE MAY CAUSE DRYNESS. CHEMICALLY SENSITIVE INDIVIDUALS MAY  
EXPERIENCE MILD IRRITATION.

INGESTION: MAY CAUSE STOMACH OR INTESTINAL IRRITATION IF SWALLOWED.

## INHALATION:

NO ADVERSE EFFECTS EXPECTED UNDER TYPICAL USE CONDITIONS. ADEQUATE VENTILATION SHOULD BE PRESENT FOR PROLONGED USAGE IN SMALL ENCLOSED AREAS.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NUMBER	PERCENT RANGE
WATER	7732-18-5	>/=78%
2-BUTOXYETHANOL	111-76-2	</=6%
ETHOXYLATED ALCOHOL MIXTURE	PROPRIETARY	</=5%
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	</=5%
SODIUM CITRATE	68-04-2	</=5%
FRAGRANCE	PROPRIETARY	</=1%

**SECTION 4: FIRST AID MEASURES**

IF INHALED: IF ADVERSE EFFECT OCCURS, MOVE TO FRESH AIR.

IF ON SKIN: IF ADVERSE EFFECT OCCURS, RINSE SKIN WITH WATER.

IF IN EYES:

FLUSH WITH PLENTY OF WATER. AFTER 5 MINUTES OF FLUSHING, REMOVE CONTACT LENSES, IF PRESENT. CONTINUE FLUSHING FOR AT LEAST 10 MORE MINUTES.

IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.

IF INGESTED: DRINK PLENTY OF WATER TO DILUTE.

**SECTION 5: FIRE FIGHTING MEASURES**

THIS FORMULA IS STABLE, NON-FLAMMABLE, AND WILL NOT BURN. NO SPECIAL PROCEDURES NECESSARY

FLAMMABILITY: NON-FLAMMABLE

FLASH POINT: NON-FLAMMABLE

SUITABLE EXTINGUISHING MEDIA:

USE DRY CHEMICAL, CO<sub>2</sub>, WATER SPRAY OR "ALCOHOL" FOAM.

EXTINGUISHING MEDIA TO AVOID: HIGH VOLUME JET WATER.

SPECIAL EXPOSURE HAZARDS:

IN EVENT OF FIRE CREATED CARBON OXIDES, OXIDES OF PHOSPHORUS MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT:

WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS; WEAR FULL PROTECTIVE CLOTHING.

## SECTION 6: ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: SEE SECTION 8 - PERSONAL PROTECTION.

ENVIRONMENTAL PRECAUTIONS:

DO NOT ALLOW INTO OPEN WATERWAYS AND GROUND WATER SYSTEMS.

METHOD FOR CLEAN UP:

DILUTE WITH WATER AND RINSE INTO SANITARY SEWER SYSTEM OR SOAK UP WITH INERT ABSORBENT MATERIAL.

## SECTION 7: HANDLING AND STORAGE



HANDLING:

KEEP CONTAINER TIGHTLY CLOSED. ENSURE ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

STORAGE: KEEP IN COOL DRY AREA.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



EXPOSURE LIMIT VALUES:

	OSHA PEL	ACGIH TLV
2-BUTOXYETHANOL	TWA 50 PPM (240 MG/M3)	20 PPM (97 MG/M3)
TETRAPOTASSIUM PYROPHOSPHATE		5 MG/M3

EXPOSURE CONTROLS:

EYE CONTACT: USE PROTECTIVE GLASSES IF SPLASHING OR SPRAY-BACK IS LIKELY.

RESPIRATORY: USE IN WELL VENTILATED AREAS.

SKIN CONTACT:

PROLONGED EXPOSURE OR DERMAL SENSITIVE INDIVIDUALS SHOULD USE PROTECTIVE GLOVES.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: CLEAR LIQUID

VAPOR PRESSURE:

18 MMHg @ 20 DEG. C

23.5 MMHg @ 26 DEG. C

ODOR: NO ADDED ODOR; CHEMICAL/DETERGENT

DENSITY: 8.5 LB/GAL

SPECIFIC GRAVITY: 1.020 +/- 0.010

WATER SOLUBILITY: 100%

PH:

9.0 - 9.9 (CRYSTAL)

8.0 - 8.9 (SAFETY TOWEL)

VOC COMPOSITE PARTIAL PRESSURE: TBD

BOILING POINT: APPROX. 212 DEG. F (100.6 DEG. C)

FREEZING POINT: APPROX. 16 DEG. F (-9 DEG. C)

NUTRIENT CONTENT:

PHOSPHOROUS: 0.28%

SULFUR: APPROX. 180 PPM

FLUORINE: APPROX. 90 PPM

CHLORIDE: APPROX. 110 PPM

VOC FLUID:

CARB METHOD 310: 5.8%\*

VOC TOWELS:

CARB METHOD 310: 1%

SCAQMD METHOD 313: 6.6%\*

\* PRODUCT MUST BE DILUTED TO MEET AIR QUALITY REGULATIONS

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: STABLE

MATERIALS TO AVOID: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS:

NORMAL PRODUCTS OF COMBUSTION - CO, CO<sub>2</sub>; OXIDES OF PHOSPHOROUS MAY OCCUR.

## SECTION 11: TOXICOLOGICAL INFORMATION



### ACUTE TOXICITY:

ORAL LD50 (RAT): >5 G/KG BODY WEIGHT

DERMAL LD50 (RABBIT): >5 G/KG BODY WEIGHT

TOXICITY CALCULATED FROM INGREDIENTS USING OECD SERIES ON TESTING AND ASSESSMENT NUMBER 33

### CARCINOGENS:

NO INGREDIENTS ARE LISTED BY OSHA, IARC, OR NTP AS KNOWN OR SUSPECTED CARCINOGENS.

## SECTION 12: ECOLOGICAL INFORMATION



HAZARD TO WILD MAMMALS: LOW, BASED ON TOXICOLOGY PROFILE

HAZARD TO AVIAN SPECIES: LOW, BASED ON TOXICOLOGY PROFILE

HAZARD TO AQUATIC ORGANISMS: LOW, BASED ON TOXICOLOGY PROFILE

### CHEMICAL FATE INFORMATION:

READILY BIODEGRADABLE BASED ON BIODEGRADABILITY PROFILE OF INGREDIENTS

## SECTION 13: DISPOSAL CONSIDERATIONS



### APPROPRIATE METHOD FOR DISPOSAL:

#### UNUSED PRODUCT:

\*DILUTE WITH WATER TO USE CONCENTRATION AND DISPOSE BY SANITARY SEWER.

#### USED PRODUCT:

\*THIS PRODUCT CAN ENTER INTO CLARIFIERS AND OIL/WATER SEPARATORS.

USED PRODUCT MAY BE HAZARDOUS DEPENDING ON THE CLEANING APPLICATION AND RESULTING CONTAMINANTS.

#### EMPTY CONTAINERS:

\*TRIPLE-RINSE WITH WATER AND OFFER FOR RECYCLING IF AVAILABLE IN YOUR AREA. OTHERWISE, DISPOSE AS NON-HAZARDOUS WASTE.

\*DISPOSE OF USED OR UNUSED PRODUCT, AND EMPTY CONTAINERS IN ACCORDANCE WITH THE LOCAL, STATE, PROVINCIAL, AND FEDERAL REGULATIONS FOR YOUR LOCATION. NEVER DISPOSE OF USED DEGREASING RINSATES INTO LAKES, STREAMS, AND OPEN BODIES OF WATER OR STORM DRAINS.

**SECTION 14: TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION (DOT) / CANADIAN:

TDG: NOT REGULATED

IMO / IDMG: NOT CLASSIFIED AS DANGEROUS

ICAO / IATA: NOT CLASSIFIED AS DANGEROUS

ADR/RID: NOT CLASSIFIED AS DANGEROUS

U.N. NUMBER: NOT REQUIRED

PROPER SHIPPING NAME: DETERGENT SOLUTION

HAZARD CLASS: NON-HAZARDOUS

MARINE POLLUTANT: NO

**SECTION 15: REGULATORY INFORMATION**

ALL COMPONENTS ARE LISTED ON: EINECS, TSCA, DSL AND AICS INVENTORY.

NO COMPONENTS LISTED UNDER:

CLEAN AIR ACT SECTION 112; CLEAN WATER ACT 307 & 311

SARA TITLE III:

2-BUTOXYETHANOL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AS CATEGORY N230 - CERTAIN GLYCOL ETHERS.

RCRA STATUS: NOT A HAZARDOUS WASTE

CERCLA STATUS: NO COMPONENTS LISTED

STATE RIGHT TO KNOW LISTS:

2-BUTOXYETHANOL:

ILLINOIS, MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA, RHODE ISLAND

WHMIS CLASSIFICATION: CATEGORY D, SUBCATEGORY 2B, EYE IRRITANT

NAME	TOXIC SUBSTANCES LIST - SCHEDULE 1 - CEPA (CANADIAN ENVIRONMENTAL PROTECTION ACT)	NPRI INVENTORY
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2-BUTOXYETHANOL	YES	NO
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THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE

CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY CANADA'S CONTROLLED PRODUCTS REGULATION.

## SECTION 16: OTHER INFORMATION



QUESTIONS ABOUT THE INFORMATION FOUND ON THIS MSDS SHOULD BE DIRECTED TO:  
SUNSHINE MAKERS, INC. - TECHNICAL DEPARTMENT  
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HUNTINGTON BEACH, CA 92649

PHONE: 800/228-0709 [8AM-5PM PACIFIC TIME, MON-FRI]

FAX: 562/592-3830

EMAIL: INFOWEB@SIMPLEGREEN.COM

NATIONAL STOCK NUMBERS & INDUSTRIAL NUMBERS:

CRYSTAL:

PART NUMBER	NSN	SIZE
19024	7930-01-418-1151	24 OZ. SPRAY (12/CS)
19128	7930-01-418-1152	1 GAL. (6/CS)
19005	7930-01-418-1153	5 GAL.
19015		15 GAL.
19055	7930-01-418-1155	55 GAL.
19275		275 GAL.

SAFETY TOWELS:

PART NUMBER	SIZE
13353	5 COUNT POUCH (50/CS)
13351	75-COUNT CANISTER (6/CS)

\*\*INTERNATIONAL PART NUMBERS MAY DIFFER.

DISCLAIMER:

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