

CHEMGREEN, INC.
MATERIAL SAFETY DATA SHEET

CHEMGREEN – ECO SOLV-IT

SECTION 1 :=====IDENTIFICATION=====

Effective Date: 1/03/12

Revised: 01/03/12

Name and Address:

Phone: (214)-449-7807

Emergency Phone: CHEMTREC (800)-424-9300

CHEMGREEN, INC.
101 CONVENTION CENTER DRIVE
LAS VEGAS, NV. 89109

Chemical Name: NOT APPLICABLE
Synonyms: CLEANER, DEGREASER
D.O.T. Hazard Class: UN2319, III, CLASS 3
D.O.T. Shipping Name: TERPENE HYDROCARBONS, N.O.S.
Formula: SEE SECTION II
Chemical Family: N.A.
ID No.: NONE
NFPA Profile: Health 1; Flammability 2; Reactivity 0

SECTION 2 :=====INGREDIENTS=====

A. Hazardous Ingredients

	%	CAS No.
CITRUS TERPENES	H	94266-47-4
NONIONIC SURFACTANT	H	9002-92-0
PROPRIETARY INGREDIENT	M	PROPRIETARY

B. Other Ingredients

	%*	TLV
NONE		

Low: 0-2% Medium: 2%-15% High: >15%

SECTION 3 :=====PHYSICAL PROPERTIES=====

Boiling Point:	310°F to 332°F	Specific Gravity:	0.850-0.859
Percent Volatile (volume):	N.D.	pH (undiluted):	7-7.5
Vapor Pressure (mm Hg):	<2mmHg @ 68°F	Solubility in Water:	Fully miscible
Vapor Density (air=1):	N.D.	Evaporation Rate (water=1):	Med to Fast
Freezing Point:	~10°F	Viscosity:	N.D.
VOC Content:	60-95% by volume		

Appearance and Odor: CLEAR TO PALE YELLOW LIQUID WITH CITRUS AROMA.

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SECTION 4:=====HAZARDS IDENTIFICATION=====

Emergency Overview

PRODUCT IS COMBUSTIBLE.

PRODUCT IS SLIPPERY WHEN SPILLED

Potential Health Effects: SEE SECTION 11 FOR MORE INFORMATION

Likely Routes of Exposure: EYE CONTACT, SKIN CONTACT, INHALATION

Eye: CAUSES MODERATE TO SEVERE IRRITATION

Skin: MAY CAUSE SLIGHT REDNESS. PROLONGED OR REPEATED EXPOSURE MAY CAUSE DRYING OF THE SKIN.

Inhalation: MAY CAUSE NOSE, THROAT AND RESPIRATORY TRACT IRRITATION, COUGHING, HEADACHE.

Ingestion: NOT LIKELY TO BE TOXIC, BUT MAY CAUSE VOMITING, HEADACHE OR OTHER MEDICAL PROBLEMS.

Medical Conditions Aggravated by Exposure: MAY IRRITATE THE SKIN OF PEOPLE WITH PRE-EXISTING SKIN CONDITIONS.

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR POTENTIAL CARCINOGENS AS LISTED BY OSHA, IARC OR NTP.

SECTION 5:=====FIRST AID MEASURES=====

Eye Contact:	IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. CONSULT PHYSICIAN.
Skin Contact:	IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ADVICE IF IRRITATION DEVELOPS.
Inhalation:	REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IN CASE UNCONSCIOUSNESS, PUT IN SIDE POSITION FOR TRANSPORTATION.
Ingestion:	IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 6:=====FIRE FIGHTING MEASURES=====

Flammable Limits:	THIS MATERIAL IS COMBUSTIBLE, WHICH IS DEFINED AS HAVING A FLASH POINT BETWEEN 100°F AND 200°F. PRODUCT FLASH POINT IS 120°F.
Extinguishing Media:	CARBON DIOXIDE, FOAM OR DRY CHEMICAL.
Hazards to Firefighters:	VAPORS MAY BE IRRITATING TO EYES, SKIN AND RESPIRATORY TRACT.
Protective Equipment:	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL FIRE-FIGHTING TURNOUT GEAR.
Products of Combustion:	FORMS ACRID FUMES, CARBON MONOXIDE, AND CARBON DIOXIDE.

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SECTION 7:=====ACCIDENTAL RELEASE MEASURES=====

Personal Precautions: USE PERSONAL PROTECTION RECOMMENDED AS RECOMMENDED IN SECTION 9. PRODUCT IS SLIPPERY WHEN SPILLED.

Environmental Precautions: KEEP OUT OF DRAINS, SEWERS, DISTCHES AND WATERWAYS.
Methods for Containment: DIKE SPILL AREA AND CAP LEAKING CONTAINERS AS NECESSARY TO PREVENT FURTHER SPREADING OF SPILLED MATERIAL. ABSORB SPILLED LIQUID WITH SUITABLE MATERIAL.

Clean-up Methods: ELIMINATE ALL IGNITION SOURCES. USE EQUIPMENT RATED FOR USE AROUND COMBUSTIBLE MATERIALS. PLACE IN AN APPROPRIATE DISPOSAL CONTAINER. OIL SOAKED RAGS MAY SPONTANEOUSLY COMBUST. PLACE IN APPROPRIATE DISPOSAL CONTAINER.

CERCLA RQ: THERE IS NO CERCLA REPORTABLE QUANTITY FOR THIS MATERIAL. IF SPILL GOES OFF SITE, NOTIFICATION OF LOCAL GOVERNMENT AUTHORITIES IS RECOMMENDED.

SECTION 8:=====HANDLING AND STORAGE=====

Handling: KEEP AWAY FROM HEAT, SPARKS AND FLAMES. OPEN CONTAINER SLOWLY TO RELEASE PRESSURE CAUSED BY TEMPERATURE VARIATIONS. DO NOT ALLOW THIS MATERIAL TO COME IN CONTACT WITH EYES. AVOID PROLONGED CONTACT WITH SKIN. USE IN WELL VENTILLATED AREAS. DO NOT BREATHE VAPORS.

Storage: PRODUCT MAY BE PACKAGED IN PHENOLIC-LINED, STEEL CONTAINERS OR FLUORINATED PLASTIC CONTAINERS. STORE IN WELL VENTILLATED AREAS. STORAGE TEMPERATURE SHOULD NOT EXCEED 110°F FOR EXTENDED PERIODS OF TIME. KEEP CONTAINER CLOSED WHEN NOT IN USE. AIR SHOULD BE EXCLUDED FROM PARTIALLY FILLED CONTAINERS BY DISPLACING WITH NITROGEN AND CARBON DIOXIDE. DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR THIS CONTAINER; RESIDUE VAPORS MAY IGNITE.

SECTION 9:=====EXPOSURE CONTROL/PERSONAL PROTECTION=====

Exposure Guidelines:

CITRUS TERPENES:	8h TWA = 30 ppm (AIHA Standard)
NONIONIC SURFACTANT:	N/E (NOT ESTABLISHED)

Engineering Controls: PROVIDE VENTILLATION. KEEP AWAY FROM SPARKS AND FLAMES.

Respiratory protection: NORMALLY NOT REQUIRED. IF ADEQUATE VENTILLATION IS UNAVAILABLE, USE NIOSH APPROVED AIR-PURIFYER WITH ORGANIC VAPOR CARTRIDGE OR CANISTER.

Skin Protection: NITRILE GLOVES ARE RECOMMENDED. BOOTS, APRON OR BODYSUIT SHOULD BE WORN AS NECESSARY.

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Eye Protection: WEAR SAFETY GLASSES OR GOGGLES.
Body Protection: USE PROTECTIVE WORK CLOTHING

SECTION 10:=====STABILITY AND REACTIVITY=====

Stability: STABLE
Conditions to Avoid: KEEP AWAY FROM HEAT, SPARKS AND FLAMES.
Incompatible Materials: STRONG OXIDIZING AGENTS AND STRONG ACIDS, INCLUDING ACIDIC CLAYS, PEROXIDES, HALOGENS, VINYL CHLORIDE AND IODINE PENTAFLUORIDE.
Hazardous decomposition products: OXIDES OF CITRUS TERPENES, WHICH CAN RESULT FROM IMPROPER STORAGE AND HANDLING, ARE KNOWN TO CAUSE SKIN SENSITIZATION.
Possibility of Hazardous Reactions: BHT, AN ANTIOXIDANT, HAS BEEN ADDED TO PREVENT OXIDATION. AVOID LONG-TERM EXPOSURE TO AIR.

SECTION 11:=====TOXICOLOGICAL INFORMATION=====

Acute Effects: CITRUS TERPENES HAVE BEEN SHOWN TO HAVE LOW ORAL TOXICITY (LD₅₀>5 g/kg) AND LOW DEERMAL TOXICITY (LD₅₀>5 g/kg) WHEN TESTED ON RABBITS. CITRUS TERPENES ALSO SHOWED LOW TOXICITY BY INHALATION (RD₅₀>1 g/kg) WHEN TESTED ON MICE. PRODUCT MAY BE A SKIN AND EYE IRRITANT. INHALATION MAY CAUSE IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT.

Chronic Effects: THIS PRODUCT IS NOT CLASSIFIED AS A CARCINOGEN BY OSHA, IARC OR NTP. THIS PRODUCT HAS NOT BEEN SHOWN TO PRODUCE GENETIC CHANGES WHEN TESTED ON BACTERIAL OR ANIMAL CELLS. THIS PRODUCT NOT CONTAIN KNOWN REPRODUCTIVE OR DEVELOPMENTAL TOXINS. PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING OR DERMATITIS OF SKIN. IMPROPER STORAGE AND HANDLING MAY LEAD TO THE FORMATION OF A POSSIBLE SKIN SENSITIZER.

SECTION 12:=====ECOLOGICAL INFORMATION=====

Ecotoxicity: THERE IS NO INFORMATION AVAILABLE AT THIS TIME FOR THIS PRODUCT. HOWEVER, A SPILL MAY PRODUCE SIGNIFICANT TOXICITY TO AQUATIC ORGANISMS AND ECOSYSTEMS. SOME STUDIES HAVE SHOWN THAT CERTAIN BACTERIA AND FUNGI HAVE THE ABILITY TO DEGRADE TERPENES, DECREASING THEIR TOXICITY TO FISH. WHEN SPILLED, THIS PRODUCT MAY ACT AS AN OIL, CAUSING A FILM, SHEEN, EMULSION OR SLUDGE AT OR BENEATH THE SURFACE OF A BODY OF WATER

Persistence/Degradability: PRODUCT IS EXPECTED TO BIODEGRADE.

Bioaccumulation/Accumulation: NO APPRECIABLE BIOCONCENTRATION IS EXPECTED IN THE ENVIRONMENT.

Mobility in Environment: CITRUS TERPENES VOLATILIZE RAPIDLY.

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SECTION 13:=====DISPOSAL CONSIDERATIONS=====

Disposal Methods: INCINERATE OR DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. TAKING REGULATIONS INTO CONSIDERATION, WASTE MAY BE INCINERATED OR HANDLED THROUGH EPA SPILL CONTROL PLAN VIA LANDFILL OR DILUTION. EMPTY CONTAINERS MUST BE TRIPLE-RINSED PRIOR TO DISPOSAL. OIL SOAKED RAGS SHOULD BE DISPOSED OF PROPERLY TO PREVENT SPONTANEOUS COMBUSTION.

SECTION 14:=====TRANSPORT INFORMATION=====

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S.
Hazard Class: 3
UN-Number: Un2319
Packaging Group: III
Label/Plackard: EXCEPTION 173.150 (f) APPLIES

TDG Status: HAZARDOUS
IMO Status: HAZARDOUS
IATA Status: HAZARDOUS

SECTION 15:=====REGULATORY INFORMATION=====

Global Inventories: THE COMPONENTS OF THIS PRODUCT ARE INCLUDED IN THE FOLLOWING INVENTORIES;

USA (TSCA)
Canada (DSL)
Europe (EINECS/ELINCS/Polymer/NLP)
Australia (AICS)
Korea (KECL)
Philippines (PICCS)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE TOXINS UNDEER CALIFORNIA PROPOSITION 65 AT LEVELS, WHICH WOULD BE SUBJECT TO THE PROPOSITION.

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SECTION 15:=====OTHER INFORMATION=====

NONE

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure their employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is illegal.