




G.K. Chemical Specialties Co. Inc.
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SAFETY DATA SHEET (SDS)

PRODUCT NAME: THINK GREEN MULTI-PURPOSE CLEANER/DEGREASER/DEODORIZER CONCENTRATE	
HEALTH HAZARD RATING:	(1)- SLIGHT HAZARD NFPA Rating
FLAMMABILITY HAZARD RATING:	(0)- MINIMAL HAZARD
REACTIVITY HAZARD RATING:	(0)- MINIMAL HAZARD
PERSONAL PROTECTION:	a (glasses,)
HAZARD ALERT SIGN:	

SECTION 1 – IDENTIFICATION

PRODUCT IDENTIFIER	
PRODUCT NAME	THINK GREEN MULTI -PURPOSE CLEANER/ DEGREASER/ DEODORIZER CONCENTRATE
MANUFACTURER'S NAME AND ADDRESS EMERGENCY PHONE NO.	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
SUPPLIER'S NAME AND ADDRESS EMERGENCY PHONE NO.	
CHEMICAL NAME	N/A
CHEMICAL FAMILY	N/A
TRADE NAME AND SYNONYMS	N/A
MATERIAL USE	cleaning

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m³ for a normal working day or at any time for some materials.

"C.A.S REG. No." means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

"LC 50" means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

"LD 50" means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

SECTION 2 – HAZARD IDENTIFICATION

Dangerous Goods-WHMIS: Not regulated

OSHA HAZARDS: Irritant

GHS CLASSIFICATION

Eye irritation- Category 2A

GHS Label Elements, including precautionary statements: Hazard Statements

Signal word-DANGER

HAZARD STATEMENTS

H320-Causes eye irritation

H302- Harmful if swallowed

PREVENTION (see also section 4 –First aid and measures)

P280: Wear eye protection/ face protection

P264: Wash skin thoroughly after handling

P405: Store locked up



RESPONSE:

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/ attention

P303 + P361 +P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Shower.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

POTENTIAL HEALTH EFFECTS

EYE: May cause irritation

SKIN: May cause skin irritation

INGESTION: May be harmful if swallowed

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS				
HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S., N.A. OR U.N. NUMBERS	LD50 {SPECIFY SPECIES & ROUTE}	LC 50 {SPECIFY SPECIES & ROUTE}
Oleic acid Potassium salt	3 - 7	143-18-0	Oral(Rat): >5,000 mg/kg Dermal (Rabbit):>2000 mg/kg	
Sodium (C10-16) Benzene Sulfonate	3 - 7	68081-2	Oral (Rat): >1,000 mg/kg Dermal(Rabbit):>2,999 mg/kg	
Alcohols, C9-C11), Ethoxylated	5 - 10	68439-46-3	Oral (Rat): 1,400 mg/kg Dermal(Rabbit):>2000mg/kg	
Cocoamide DEA	1 - 3	68603-42-9	Oral(Rat): >5,000mg/kg Dermal(Rabbit):>2,000mg/kg	
(R)-p-Mentha-1,8-diene	3 - 7	5989-27-5	Oral(Rat): 4,400 mg/kg Dermal(Rabbit): 5,000 mg/kg	
2-Aminoethanol	1 - 3	141-43-5	Oral(Rat): 1,515 mg/kg Dermal(Rabbit): 2,504mg/kg	
Water, inert and other non -hazardous ingredients	Balance			

SECTION 4 – FIRST AID MEASURES	
SKIN CONTACT	No known significant effects or critical hazards for product at use solution. For product as sold contact may cause mild irritation. In case of contact rinse with plenty of water.
EYE CONTACT	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention if required
INHALATION	No known significant effects or critical hazards
INGESTION	May be harmful if swallowed. Do not induce vomiting. Drink 1 or 2 glasses of water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
NOTES TO PHYSICIAN	Treatment based on sound judgment of physician and individual reaction of patient. If swallowed Symptoms may include nausea, vomiting and diarrhea. EYE CONTACT: Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

SECTION 5 – FIRE-FIGHTING MEASURES	
FLASH POINT (°C)	48° C (118.4° F) Flash point for (R)-p-Mentha-1, 8-diene
FLASH POINT METHOD	Closed cup
AUTOIGNITION TEMPERATURE (°C)	255° C (491° F)

UPPER FLAMMABLE LIMIT (% VOL.)	6.1 % For (R)-p-Mentha-1,8-diene
LOWER FLAMMABLE LIMIT (% VOL.)	0.7 % For (R) –p-Mentha-1,8-diene
HAZARDOUS COMBUSTION PRODUCTS	Carbon Dioxide (CO ₂), Carbon monoxide (CO), Oxides of nitrogen, Oxides of Sulphur and Oxides of Citrus terpenes.
UNUSUAL FIRE/ EXPLOSION HAZARDS	None known
SENSITIVITY TO MECHANICAL IMPACT	Not sensitive
SENSITIVITY TO STATIC DISCHARGE	Not sensitive
EXTINGUISHING MEDIA	Water spray, foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear full protective clothing, including self-contained breathing equipment

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
LEAK AND SPILL PROCEDURE	Stop leak. Move containers from spill area. Dilute with water and mop up. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur
ENVIRONMENTAL PRECAUTIONARY	Prevent entry into sewers or streams.
PERSONAL PRECAUTIONARY MEASURES	Wear protective clothing during cleanup

SECTION 7 – HANDLING AND STORAGE	
HANDLING PROCETURES	Avoid contact with eyes. Avoid ingestion. Use good industrial hygiene practices in handling this product. Keep container closed when not in use.
STORAGE NEEDS	Keep container tightly closed. Keep away from children. Do not store in unlabeled containers. Do not store with strong oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
VENTILATION REQUIREMENTS	General ventilation is recommended.
PROTECTIVE EQUIPMENT	Ensure that eyewash stations are proximal to the work-station location
EYE/TYPE	Safety glasses
RESPIRATORY/TYPE	None required
GLOVE/TYPE	Nitrile, Vinyl, latex, Butyl impervious gloves
FOOTWEAR/TYPE	No special footwear is required
BODY/TYPE	No special protective clothing is required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE – PHYSICAL STATE	Clear green liquid
ODOUR	Citrus
ODOUR THRESHOLD (PPM)	Not available
PH	10.10 ±0.50 in water
MELTING POINT (°C)	Not applicable
BOILING POINT (°C)	100°C
FREEZING POINT (°C)	0°C

EVAPORATION RATE	As water
FLAMMABILITY	Not applicable
FLASH POINT (°C)	48 ^o C (118.4 ^o F) For (R)-p-Mentha-1,8-diene
AUTO IGNITION TEMPERATURE	255 ^o C (491 ^o F)
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	Not applicable
VAPOUR PRESSURE	Not applicable
SOLUBILITY	Soluble in water
VISCOSITY	Viscous liquid
% VOLATILE BY VOLUME	80 ± 1
SPECIFIC GRAVITY	1.00 ± 0.02 gm / cm ³

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	The product is stable
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	Not applicable
CONDITIONS TO AVOID	No specific data
INCOMPATIBLE MATERIALS	Strong Oxidizing agents, Acids
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Dioxide (CO ₂), Carbon Monoxide, Oxides of Nitrogen, Oxides of Sulphur and Oxides of Citrus terpenes

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	<p>For Oleic acid Potassium salt (143-18-0): Acute Oral toxicity LD50 (Rat): >5,000 mg /kg, LD50 Dermal (Rabbit): >2,000 mg/kg.</p> <p>For Sodium (C10-16) Benzene Sulfonate (68081-2): Acute Oral Toxicity LD50 (Rat); >1,000 mg/kg. Acute Dermal Toxicity LD50 (Rabbit): >2,000 mg/kg</p> <p>For Alcohols, C9-C11, Ethoxylated (68439-46-3): Acute Oral toxicity LD50 (Rat): 1,400 mg/kg. LD50 Dermal (Rabbit): >5,000 mg/kg.</p> <p>For Cocoamide DEA (68603-42-9): Acute Oral toxicity LD50 (Rat):> 5,000 mg / kg. LD50 Dermal (Rabbit): >2,000 mg/kg.</p> <p>For (R)-p-Mentha-1,8-diene (5989-27-5): : Acute Oral toxicity LD50 (Rat): 4,400 mg/kg. Acute Dermal Toxicity LD50 (Rabbit):> 5,000 mg/kg.</p> <p>For 2-Aminoethanol (141-43-5): Acute Oral Toxicity LD50 (Rat): 1,515 mg/kg. Acute Dermal Toxicity LD50 (Rabbit); 2,504 mg/kg</p> <p>For the mix estimated Acute Oral Toxicity is much >5,000 mg/kg. Therefore product is classified as non-toxic. Acute Dermal Toxicity for the mix is also estimated to be much >5,000 mg/ kg. Therefore the product is classified as non-toxic</p>
TOXIC EFFECTS ON HUMANS	May cause irritation of eyes
CHRONIC EFFECTS ON HUMANS	No known significant effects
CARCINOGENICITY	No evidence
TERATOGENICITY	No evidence
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	No evidence

SECTION 12 –ECOLOGICAL INFORMATION	
ECOTOXICITY DATA	<p>For Oleic acid Potassium salt (143-18-0) : Acute Toxicity to fish LC50, Lepomis macrochirus (Bluegill): 23,000 ug / L /96 h / Static (slightly toxic). LC50 Rainbow trout, Donaldson trout (Oncorhynchus mykiss): 9,100 ug / L / 96 h/ Static. .Acute Toxicity to aquatic invertebrates EC50, Daphnia magna (Water flea): 570 ug /L /48 h/ Static. Ingredient readily BIODEGRADABLE.</p> <p>For Sodium (C10-16) Benzene Sulfonate (68081-81-2): Acute Toxicity to fish LC50, Fathead minnow (Pimephales Promelas): 1.67 mg /L /96h. Acute Toxicity Crustacea EC50, Daphnia magna (Water flea): 2.4 mg / L/ 48 h. EC50 Algae: 20 mg /L / 96h. This ingredient is Toxic to aquatic organisms, however it biodegradates very fast. Primary degradation intermediates are Sulfophenyl Carboxylates which further degrades to CO₂, SO₄ and water. Biodegradation intermediates have LC50 >1,000 mg /L /96 h. for Fathead Minnows and Daphnia magna and are not toxic to aquatic organisms.</p> <p>For Alcohols, C9-C11, Ethoxylated (68439-46-3): Acute Toxicity to fish LC50, Fathead minnow (Pimephales promelas): 8.5 mg /L/ 96 h. Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 5.8 mg /L / 48 h.. Ingredient readily BIODEGRADABLE</p> <p>For Cocoamide DEA (68603-42-9): Acute Toxicity to fish LC50, Zebra fish: 6.7 mg /L / 96 h./Static- renewal. Acute Toxicity to aquatic Invertebrates EC50, Daphnia magna (Water flea): 3.3 mg / L / 24 h/ static. Biotic degradability: Ingredient readily BIODEGRADABLE. Non bioaccumulable.</p> <p>For (R)-p-Mentha-1,8-diene (5989-27-5): Acute Toxicity to fish LC50, Fathead minnow (Pimephales promelas): 0.7 mg /L / 96 h. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): 0.36 mg / L /48 h. EC50 Water flea (Daphnia pulex): 69.6 mg /L / 48 h.</p> <p>For 2-Aminoethanol (141-43-5): Acute Toxicity to fish LC50, (Cyprinus carpio): 349 mg/L /96h. LC50, Carassius auratus: 170 mg/ L/96 h/ Static. Acute Crustacea EC50, Daphnia magna (Water flea): 65 mg / L/48h. Ingredient readily biodegradable. Biochemical oxygen demand (BOD) incubation period 5 days: 800 mg/g</p>
BIODEGRADABILITY	Readily biodegradable
PRODUCTS OF DEGRADATION	No data available

SECTION 13 – DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING	Suitable waste facility

SECTION 14 – TRANSPORT INFORMATION	
UN NUMBER	Not applicable
UN PROPER SHIPPING NAME	Not applicable
TRANSPORT HAZARD CLASS	Not regulated
PACKAGING GROUP	Not applicable
ENVIRONMENTAL HAZARDS	Nil
TRANSPORT IN BULK, if applicable	Not applicable
SPECIAL PRECAUTIONS	NIL

SECTION 15 – REGULATORY INFORMATION	
SAFETY HEALTH & ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT	<p>U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt.</p> <p>Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.</p>

SECTION 16 – OTHER INFORMATION	
PREPARED BY:	Gus Kaklamanos - Chemist
TELEPHONE NO.:	416-261-7182
DATE OF THE LATEST REVISION OF SDS:	October 5, 2017