




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

|   |   |
|---|---|
| <b>PRODUCT NAME:</b> G-250 LIQUID DISHWASHING DETERGENT |   |
| <b>HEALTH HAZARD RATING:</b>                            | (1)- SLIGHT HAZARD      NFPA Rating   |
| <b>FLAMMABILITY HAZARD RATING:</b>                      | (0)- MINIMAL HAZARD   |
| <b>REACTIVITY HAZARD RATING:</b>                        | (0)- MINIMAL HAZARD   |
| <b>PERSONAL PROTECTION:</b>                             | a (glasses)   |
| <b>HAZARD ALERT SIGN:</b>                               |  |

|  |   |
|--|---|
| <b>SECTION 1 – IDENTIFICATION</b>                                    |   |
| <b>PRODUCT IDENTIFIER</b>  |   |
| <b>PRODUCT NAME</b>  | G-250 LIQUID DISHWASHING DETERGENT  |
| <b>MANUFACTURER'S NAME AND ADDRESS</b><br><b>EMERGENCY PHONE NO.</b> | G.K. Chemical Specialties Co. Inc.<br>90 Barbados Blvd.<br>Scarborough, Ontario M1J 1K9<br>(416) 261-7182 / 905 427-7605 / 416-526-4037 |
| <b>SUPPLIER'S NAME AND ADDRESS</b><br><b>EMERGENCY PHONE NO.</b>     |   |
| <b>CHEMICAL NAME</b>   | N/A   |
| <b>CHEMICAL FAMILY</b>   | N/A   |
| <b>TRADE NAME AND SYNONYMS</b>                                       | N/A   |
| <b>MATERIAL USE</b>  | 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/m<sup>3</sup> 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 Hazard Class: D, 2B (Toxic material)

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)

P264: Wash skin thoroughly after handling

P280; Wear eye protection/ face protection

### 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

### POTENTIAL HEALTH EFFECTS

Eye: May cause irritation

## 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} |
|---|-----------------------------|------------------------------|--|---------------------------------|
| Sodium (C10-16) Benzene Sulfonate                 | 5 - 10                      | 68081-81-2                   | Oral(Rat): >1000 mg/kg<br>Dermal(Rabbit):>2000mg/kg  |                                 |
| Sodium Dodecyl Sulfate                            | 3 - 7                       | 151-21-3                     | Oral(Rat): 1288 mg/kg<br>Dermal (Rabbit):580 mg/kg   |                                 |
| Cocamidopropyl Betaine                            | 1 - 5                       | 70851-07-9                   | Oral (Rat): >2335 mg/kg<br>Dermal(Rabbit):>2000mg/kg |                                 |
| Cocamidopropylamine Oxide                         | < 1                         | 68155-09-9                   | Oral(Rat): 4350 mg/kg<br>Dermal(Rabbit):>2000mg/kg   |                                 |
| Lauramine Oxide                                   | < 1                         | 1643-20-5                    | Oral(Rat): > 1065 mg/kg<br>Dermal(Rabbit):>2000mg/kg |                                 |
| Cocoamide DEA                                     | < 1                         | 68603-42-9                   | Oral(Rat): >5000 mg/kg<br>Dermal(Rabbit):>2000mg/kg  |                                 |
| Sodium Sulphate                                   | < 1                         | 7757-82-6                    | Oral(Moose): 5989 mg/kg                              |                                 |
| Ethoxylated Lanolin 75 EO                         | < 1                         | 61790-81-6                   | Oral(Rat): > 54 mg/kg                                |                                 |
| Water, inert and other non -hazardous ingredients | Balance                     |                              |  |                                 |

| <b>SECTION 4 – FIRST AID MEASURES</b> |  |
|---------------------------------------|--|
| <b>SKIN CONTACT</b>                   | No known significant effects or critical hazards expected  |
| <b>EYE CONTACT</b>                    | Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention if required   |
| <b>INHALATION</b>                     | No known significant effects or critical hazards   |
| <b>INGESTION</b>                      | 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. |
| <b>NOTES TO PHYSICIAN</b>             | Treatment based on sound judgment of physician and individual reaction of patient. If swallowed Symptoms may include nausea, vomiting and diarrhea   |

| <b>SECTION 5 – FIRE-FIGHTING MEASURES</b> |  |
|---|--|
| <b>FLASH POINT ( °C)</b>                  | Not flammable  |
| <b>FLASH POINT METHOD</b>                 | Not applicable   |
| <b>AUTOIGNITION TEMPERATURE ( °C )</b>    | Not applicable   |
| <b>UPPER FLAMMABLE LIMIT ( % VOL.)</b>    | Not applicable   |
| <b>LOWER FLAMMABLE LIMIT ( % VOL. )</b>   | Not applicable   |
| <b>HAZARDOUS COMBUSTION PRODUCTS</b>      | Carbon Dioxide ( CO <sub>2</sub> ), Carbon monoxide, Halogenated compounds, Nitrogen Oxides and oxides of Sulphur. |
| <b>UNUSUAL FIRE/ EXPLOSION HAZARDS</b>    | None known   |
| <b>SENSITIVITY TO MECHANICAL IMPACT</b>   | Not sensitive  |
| <b>SENSITIVITY TO STATIC DISCHARGE</b>    | Not sensitive  |
| <b>EXTINGUISHING MEDIA</b>                | Water spray, foam, dry powder or Carbon Dioxide. Use media appropriate for surrounding fire                        |
| <b>SPECIAL FIRE FIGHTING PROCEDURES</b>   | Fire fighters should wear full protective clothing, including self-contained breathing equipment                   |

| <b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b> |   |
|--|---|
| <b>LEAK AND SPILL PROCEDURE</b>                | 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 |
| <b>ENVIRONMENTAL PRECAUTIONARY</b>             | Prevent entry into sewers or streams.   |
| <b>PERSONAL PRECAUTIONARY MEASURES</b>         | Wear protective clothing during cleanup   |

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

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

| <b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b> |                                  |
|---|----------------------------------|
| <b>APPEARANCE – PHYSICAL STATE</b>                  | Clear Green liquid               |
| <b>ODOUR</b>  | Pleasant aroma                   |
| <b>ODOUR THRESHOLD (PPM)</b>                        | Not available                    |
| <b>PH</b>   | 7.80 ±0.50 in water              |
| <b>MELTING POINT ( °C)</b>                          | Not applicable                   |
| <b>BOILING POINT ( °C )</b>                         | 100°C                            |
| <b>FREEZING POINT ( °C )</b>                        | 0°C                              |
| <b>EVAPORATION RATE</b>                             | As water                         |
| <b>FLAMMABILITY</b>                                 | Not applicable                   |
| <b>FLASH POINT ( °C)</b>                            | Not applicable                   |
| <b>AUTO IGNITION TEMPERATURE</b>                    | Not applicable                   |
| <b>DECOMPOSITION TEMPERATURE</b>                    | Not available                    |
| <b>VAPOUR DENSITY</b>                               | Not applicable                   |
| <b>VAPOUR PRESSURE</b>                              | Not applicable                   |
| <b>SOLUBILITY</b>                                   | Soluble in water                 |
| <b>VISCOSITY</b>                                    | Viscous liquid                   |
| <b>% VOLATILE BY VOLUME</b>                         | 84 ± 1                           |
| <b>SPECIFIC GRAVITY</b>                             | 1.01 ± 0.02 gm / cm <sup>3</sup> |

| <b>SECTION 10 – STABILITY AND REACTIVITY</b> |  |
|--|--|
| <b>REACTIVITY</b>                            | The product is stable  |
| <b>CHEMICAL STABILITY</b>                    | Stable   |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS</b>    | Not applicable   |
| <b>CONDITIONS TO AVOID</b>                   | No specific data   |
| <b>INCOMPATIBLE MATERIALS</b>                | Strong Oxidizing agents  |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>      | Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide, Nitrogen compounds, Halogenated compounds, Oxides of Sulphur |

| <b>SECTION 11 –TOXICOLOGICAL INFORMATION</b> |   |
|--|---|
| <b>TOXICITY EFFECTS ON ANIMALS</b>           | <p><b>For Sodium (C10-16) Benzene Sulfonate (68081-81-2):</b> Acute Oral toxicity LD50 (Rat): &gt;1000 mg/kg, LD50 Dermal (Rabbit):&gt;2,000 mg/kg .</p> <p><b>For Sodium Dodecyl Sulfate (151-21-3):</b> Acute Oral toxicity LD50 (Rat):1288 mg /kg, LD50 Dermal (Rabbit): 580 mg/kg.</p> <p><b>For Cocamidopropyl Betaine (70851-07-9):</b> Acute Oral toxicity LD50 (Rat):&gt;2335 mg/kg. LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> |

|                                  |   |
|----------------------------------|---|
|                                  | <p><b>For Cocamidopropylamine Oxide (68155-09-0):</b> Acute Oral toxicity LD50 (Rat): 4,350 mg / kg. LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> <p><b>For Lauramine Oxide (1643-20-5):</b> Acute Oral toxicity LD50 (Rat): &gt;1,065 mg/kg. LD50 Dermal (Rabbit):&gt;2,000 mg/kg.</p> <p><b>For Cocoamide DEA (68603-42-9):</b> Acute Oral toxicity LD50 (Rat): &gt;5,000 mg/kg. LD50 Dermal (Rabbit): &gt;2,000 mg/kg.</p> <p><b>For Sodium Sulphate (7757-82-6):</b> Acute Oral toxicity LD50 (Moose): 5989 mg/kg.</p> <p><b>For Ethoxylated Lanolin 75 EO (61790-81-6):</b> Acute Oral Toxicity LD50 (Rat): 54 mg / kg.</p> <p><b>For the mix</b> estimated Acute Oral Toxicity is much &gt;5,000 mg/kg. Therefore product is classified as non-toxic. Acute Dermal Toxicity for the mix is also estimated to be much &gt;5,000 mg/ kg. Therefore the product is classified as non-toxic</p> |
| <b>TOXIC EFFECTS ON HUMANS</b>   | May cause mild irritation of eyes   |
| <b>CHRONIC EFFECTS ON HUMANS</b> | No known significant effects  |
| <b>CARCINOGENICITY</b>           | No evidence   |
| <b>TERATOGENICITY</b>            | No evidence   |
| <b>MUTAGENICITY</b>              | No evidence   |
| <b>REPRODUCTIVE EFFECTS</b>      | No evidence   |

## SECTION 12 –ECOLOGICAL INFORMATION

|                         |   |
|-------------------------|---|
| <b>ECOTOXICITY DATA</b> | <p><b>For Sodium (C10-16) Benzene Sulfonate (68081-81-2):</b> Acute Toxicity to fish LC50, Fathead minnow (Pimephales Promelas ): 1.67 mg / L /96 h. Acute Toxicity Crustacea EC50, Daphnia magna (Water flea): 2.4 mg / L / 48 h. EC50 Algae: 29 mg/ L /96 h. This ingredient is Toxic to aquatic organisms, however it biodegradates very fast. Primary degradation intermediates are Sulfophenyl Carboxylates which further degrades to CO<sub>2</sub>, SO<sub>4</sub> and water. Biodegradation intermediates have LC50 &gt; 1,000 mg / L / 96 h for Fathead Minnows and Daphnia magna and are not toxic to aquatic organisms. This ingredient composes the largest portion of the mix.</p> <p><b>For Sodium Dodecyl Sulfate (151-21-3):</b> Acute Toxicity to fish LC50, Pimephales Promelas: 29 mg / L /96 h. Acute Toxicity to aquatic invertebrates LC50, Ceriodaphnia Dubia: 5.5 mg /L /48 h. Acute toxicity to Algae EC50: 60mg /L/72 h. Ingredient readily BIODEGRADABLE</p> <p><b>For Cocamidopropyl Betaine (70851-07-9):</b> Acute Toxicity to fish LC50: 1.75 - 10 mg /L/ 96 h. Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 1.9 mg /L / 48 h. Acute Toxicity to Algae EC50: 2.4 mg /L /72 h. Ingredient readily BIODEGRADABLE</p> <p><b>For Cocamidopropylamine Oxide (68155-09-9):</b> Acute Toxicity to fish LC50: 2.3 mg /L / 96 h. Acute Toxicity to Crustacea EC50, Daphnia Magna (Water flea): 2.9 mg /L /48 h. Acute Toxicity to Algae EC50: 7 mg /L 72 h. Ingredient 98.44 % readily-20 days BIODEGRADABLE, 46.88 % 5 days.</p> <p><b>For Lauramine Oxide (1643-20-5):</b> Acute Toxicity to fish LC50: 2.67 mg / L /96h. Acute Toxicity to Crustacea EC50, Daphnia magna (Water flea): 3.1 mg /L /48h. Acute Toxicity to Algae EC50: 0.19 mg /L /72 h. Ingredient readily BIODEGRADABLE</p> |
|-------------------------|---|

|                                |  |
|--------------------------------|--|
|                                | <p><b>For Cocoamide DEA (68603-42-9):</b> 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. Ingredient readily BIODEGRADABLE</p> <p><b>For Sodium Sulphate (7757-82-6):</b> Acute Toxicity to fish LC50 Pimephales promelas (Fathead minnow): 13,500-14,500 mg /L / 96 h. LC50 , Bluegill/ Sunfish: 3040-4380 mg /L / 96 h. Acute Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea): 4547 mg / L /96 h. Ingredient Non-toxic. Persistence and Degradability: Soluble in water and Persistence is unlikely based on information available</p> <p><b>For Ethoxylated Lanolin 75 EO (61790-81-6):</b> No data found for this product</p> |
| <b>BIODEGRADABILITY</b>        | Readily biodegradable  |
| <b>PRODUCTS OF DEGRADATION</b> | Mostly Sulfophenyl Carboxylates, CO <sub>2</sub> SO <sub>4</sub>   |

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

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

| <b>SECTION 15 – REGULATORY INFORMATION</b>                                   |   |
|--|---|
| <b>SAFETY HEALTH &amp; ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT</b> | <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> |

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