



G.K. Chemical Specialties Co. Inc.
90 Barbados Blvd.
Scarborough, Ontario M1J 1K9
Tel: (416) 261-7182 Fax: (416) 261-5663

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Brite-One Metal, Chrome, Stainless Steel Cleaner and Polish

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| HEALTH HAZARD RATING: | SLIGHT HAZARD – irritation or minor reversible injury possible |
| FLAMMABILITY HAZARD RATING: | MODERATE HAZARD – material which must be moderately heated before ignition will occur, including flammable liquids with flash points at or above 100°F and below 200° F. (NFPA Class II and Class IIA) |
| REACTIVITY HAZARD RATING: | MINIMAL HAZARD – materials which are normally stable, even under fire conditions, and which will not react with water |
| PERSONAL PROTECTION: | Safety glasses + Gloves |
| HAZARD ALERT SIGN: | HEALTH HAZARD – Normal material FIRE HAZARD – Below 200° F REACTIVITY – Stable SPECIFIC HAZARD – |

SECTION I – MATERIAL IDENTIFICATION AND USE / IDENTIFICATION DE LA MATIÈRE ET USAGE

MATERIAL NAME / IDENTIFIÉRIER – NOM / IDENTIFICATION DE LA MATIÈRE

Brite-One Metal, Chrome, Stainless Steel Cleaner and Polish

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| MANUFACTURER'S NAME AND ADDRESS/ NOM DU FABRICANT – ADRESSE EMERGENCY PHONE NO. / N° DE TÉLÉPHONE D'URGENCE | G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605 |
| SUPPLIER'S NAME AND ADDRESS/ NOM DU FOURNISSEUR - ADRESSE EMERGENCY PHONE NO. / N° DE TELEPHONE DURGENGE | |
| CHEMICAL NAME / DÉNOMINATION CHIMIQUE | Not Applicable |
| CHEMICAL FAMILY / FAMILLE CHIMIQUE | Petroleum Distil. |
| CHEMICAL FORMULA / FORMULE CHIMIQUE | Not Applicable |
| TRADE NAME AND SYNONYMS / APPELLATION COMMERCIALE ET SYNONYMES | Not Applicable |
| MOLECULAR WEIGHT / POIDS MOLÉCULAIRE | Not Applicable |
| MATERIAL USE / UTILISATION DE LA MATIÈRE | Polishing |

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS 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 MSDS 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 MSDS, 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.

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL / INGRÉDIENTS DANGEREUX DE LA MATIÈRE

| HAZARDOUS INGREDIENTS / INGRÉDIENTS DANGEREUX | APPROXIMATE CONCENTRATION % CONCENTRATION APROXIMATIVE % | C.A.S., N.A. OR U.N. NUMBERS / NUMERO CAS NA OU CNU | LD50 {SPECIFY SPECIES & ROUTE} DL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION} | LC 50 {SPECIFY SPECIES & ROUTE} CL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION} |
|---|---|--|--|---|
| Naphata, Petroleum | 70-90 | 64742-48-9 | LD50 Oral Rat 500-5000 mg/kgm TLV 300 PPM Short Term Inhalation 4000-7000 PPM for 60 min | |
| Ethylene Glycol Monobutyl Ether | 3-7 | 111-76-2 | LD50, Oral, Rat, 500-5000 mg/kgm TLV 25 PPM | |
| Silicones and other Non- Hazardous ingredients | 3-7 | Non Hazardous | | |

< = Less Than

SECTION III – PHYSICAL DATA FOR MATERIAL / CARACTÉRISTIQUES PHYSIQUES DE LA MATIÈRE

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| PHYSICAL STATE / ÉTAT PHYSIQUE | Liquid |
| ODOUR AND APPEARANCE / ODEUR ET APPARENCE | Petroleum Odour Clear Liquid |
| ODOUR THRESHOLD (P.P.M.) / SEUIL DE L'ODEUR (PPM) | Not Established |
| SPECIFIC GRAVITY / DENSITE RELATIVE | 0.79 ± 0.02 gm/cm ³ |
| VAPOUR PRESSURE [MM] / TENSION DE VAPEUR [MM] | 0.5 at 20 °C |
| VAPOUR DENSITY [AIRE = 1] / DENSITE DE VAPEUR [AIR =1] | > 1 |
| EVAPORATION RATE / TAUX D'ÉVAPORATION | 0.2 n-Butyl Acetate = 1 |
| BOILING POINT [°C] / POINT D'ÉBULLITION [°C] | 179 - 198 °C |
| FREEZING POINT [°C] / POINT DE CONGELATION [°C] | Not Applicable |
| SOLUBILITY IN WATER [20°C] / SOLUBILITÉ DANS L'EAU [20°C] | Not Soluble |
| % VOLATILE [BY VOLUME] / % VOLATILITÉ [PAR VOLUME] | 95 ± 1% |
| PH | Not Applicable |
| COEFFICIENT OF WATER / OIL DISTRIBUTION / COEFFICIENT DE RÉPARTITION EAU / HUILE | Not Applicable |

**SECTION IV – FIRE AND EXPLOSION HAZARD OF MATERIAL/RISQUES D'INCENDIE ET D'EXPLOSION DU
MATÉRIEL**

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| FLAMMABILITY / INFLAMMABILITÉ <u>X</u> YES / OUI ___ NO/NON IF YES, UNDER WHICH CONDITIONS? / SI OUI, DANS QUELLES CONDIONS? | Heat, Source of Ignition |
| MEANS OF EXTINCTION / MOYENS D'EXTINCTION | Use alcohol foam, carbon dioxide, water spray or fog. Vapour may form an explosive mixture between upper and lower flammable limits. |
| SPECIAL PROCEDURES / MARCHE A SUIVRE SPÉCIALE | Do not use water except as fog. Wear self-contained breathing apparatus with full-face piece operated in the positive pressure demand mode when fighting fires. Vapours from this product may travel or be moved by air currents and be ignited by pilot lights or other ignition sources at locations distant from the point of handling. |

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| FLASHPOINT [°C] AND METHOD / POINT D'ÉCLAIR [°C] ET MÉTHODE DE DÉTERMINATION | 54 °C 129 °F |
| UPPER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MAXIMAL D'INFLAMMABILITÉ [% PAR VOLUME] | 1.0 |
| LOWER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MINIMAL D'INFLAMMABILITÉ [% PAR VOLUME] | 6.0 |
| AUTOIGNITION TEMPERATURE [°C] / TEMPÉRATURE D'AUTO-INFLAMMATION [°C] | Not Established |
| HAZARDOUS COMBUSTION PRODUCTS / PRODUITS DE COMBUSTION DANGEREUX | CO, CO ₂ , Aldehydes |

EXPLOSION DATA / DONNÉES SUR L'EXPLOSIBILITÉ

| | |
|--|-----------------|
| SENSITIVITY TO MECHANICAL IMPACT / SENSIBILITÉ AUX CHOCS | Yes, May Ignite |
| SENSITIVITY TO STATIC DISCHARGE / SENSIBILITÉ AUX DÉCHARGES ÉLECTROSTATIQUES | Yes, May Ignite |

SECTION V – REACTIVITY DATA / DONNÉES SUR LA RÉACTIVITÉ

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| CHEMICAL STABILITY / STABILITÉ CHIMIQUE <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF NO, UNDER WHICH CONDITIONS? / SI NON-, DANS QUELLES CONDISIONS? | |
| INCOMPATIBILITY TO OTHER SUBSTANCES / INCOMPATIBILITÉ AVEC D'AUTRES SUBSTANCES <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF SO, WHICH ONES? / SI OUI, AVEC LESQUELLES? | Strong Oxidizing Agents, Alkaline Materials Mineral Acids, Halogens |
| REACTIVITY AND UNDER WHAT CONDITIONS / RÉACTIVITÉ – DANS QUELLES CONDITIONS? | With common material no reaction |
| HAZARDOUS DECOMPOSITION PRODUCTS / PRODUITS DE DÉCOMPOSITION DANGEREUX | Carbon Monoxide, Carbon Dioxide and Aldehydes on burning |

SECTION VI – TOXICOLOGICAL PROPERTIES OF MATERIAL / PROPRIÉTÉS TOXICOLOGIQUES DE LA MATIÈRE

ROUTE OF ENTRY / VOIE D'ADMINISTRATION

SKIN CONTACT / CONTACT AVEC LA PEAU SKIN ABSORPTION / ABSORPTION PAR LA PEAU
 EYE CONTACT / CONTACT OCULAIRE INHALATION ACUTE / INHALATION AIGUE
 INHALATION CHRONIC / INHALATION CHRONIQUE INGESTION

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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION AIGUE A LA MATIERE | EYE CONTACT: Will cause irritation SKIN CONTACT: Will cause irritation, may cause defatting dermatitis. INGESTION: Moderately toxic. May cause nausea, vomiting and diarrhea. Large amounts may cause serious harm. INHALATION: Breathing excessive amounts of vapours may cause nasal and respirator irritation. |
| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION CHRONIQUE A LA MATIERE | Prolonged exposure to high concentrations of vapours, may result in central nervous depression and narcosis. |

MATERIAL NAME / IDENTIFIÉRIER - NOM / IDENTIFICATION DE LA MATIÉRE↓**Brite-One Metal Chrome, Stainless Steel Cleaner and Polish**

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| LD 50 OF MATERIAL [SPECIFY SPECIES & ROUTE]/LD50 DE LA MATIÉRE [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION] | 500 - 5000 mg/kgm Oral Rat |
| LC50 OF MATERIAL [SPECIFY SPECIES & ROUTE] LC50 DE LA MATIÉRE / [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION] | Not Established |
| EXPOSURE [LIMITS] / LIMITS D'EXPOSITION | TLV 290 PPM Short term inhalation 4000-7000 PPM for 60 minutes |
| IRRITANCY OF MATERIAL/PROPRIÉTÉ IRRITANTE DE LA MATIÉRE | Eyes, Skin, Respiratory Tract |
| SENSITIZATION OF MATERIAL / SENSIBILISATION A LA MATIÉRE | Eyes, Skin, Respiratory Tract |
| SYNERGISTIC MATERIALS / MATÉRES SYNERGIQUES | None Known |
| CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY / CANCÉROGÉNÉCITÉ, EFFETS NOCIFS SUR LA REPRODUCTION, TÉRATOGÉNÉCITÉ, MUTAGÉNÉCITÉ | None of the ingredients contained in this product are regulated as carcinogens by OSHA. |

SECTION VII – PREVENTIVES MEASURES / MESURES PRÉVENTIVES**PERSONAL PROTECTIVE EQUIPMENT / MATÉRIEL PERSONNEL DE PROTECTION**

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| GLOVES (SPECIFY) GANTS [PRÉCISER] | Resistant such as: Neoprene, Nitrile Rubber |
| EYE [SPECIFY] / YEUX [PRÉCISER] | Glasses, Goggles |
| RESPIRATORY (SPECIFY) / APPAREIL RESPIRATOIRE (PRÉCISÉR) | If workplace exposure limits of product or any component are exceeded, a NIOSH/MSHA approved air supplies respirator is advised in absence of proper environmental control. |
| OTHER (SPECIFY) / AUTRES (PRCISER) | Normal work clothing covering arms and legs. |
| ENGINEERING CONTROLS [E.G. VENTILATION, ENCLOSED PROCESS, SPECIFY] / MÉCANISMES TECHNIQUES [EX. VENTILATION, OPÉRATION EN MILIEU FERMÉ, PRÉCISER] | Provide sufficient mechanical (general and/or local) ventilation to maintain exposure below TVL'S |
| LEAK AND SPILL PROCEDURE / MESURES EN CAS DE FUITE OU DE DÉVERSEMENT | SMALL SPILL: Absorb liquid using absorbent material and transfer to hood. LARGE SPILL: Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay earth, floor absorbent and shoveled into containers. Equipment used must be spark free. |
| WASTE DISPOSAL / ÉLIMINATION DES RÉSIDUS | SMALL SPILL: Allow volatile portion to evaporate in hood. Dispose of remaining material in accordance with applicable regulations. LARGE SPILL: Destroy by liquid incineration. Contaminated absorbent may be deposited in landfill in accordance with local provincial and federal regulations. Send to an approved reclaimer. |
| HANDLING PROCEDURES AND EQUIPMENTS / MÉTHODES ET ÉQUIPEMENT POUR LA MANUTENTION | Avoid any source of ignition. Keep out of reach of children. Avoid contact with eyes, skin, and clothing. |
| STORAGE REQUIREMENTS / EXIGENCES D'ENTREPOSAGE | Store in a cool place in closed containers away from any source of ignition |
| SPECIAL SHIPPING INFORMATION / RENSEIGNEMENTS SPÉCIAUX POUR L'EXPÉDITION | None Required |

SECTION VIII – FIRST AID MEASURES / PREMIERS SOINS

SKIN CONTACT: Thoroughly wash exposed area with soap and water removed contaminated clothing laundry clothing before re-use.

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention, if irritation persists.

IF SWALLOWED: Do not induce vomiting, keep person warm, quiet, and get medical attention. Aspiration of material into the lunge due to vomiting can cause chemical pneumonitis which can be fatal

IF BREATHED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical help.

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| ADDITIONAL INFORMATION / RENSEIGNEMENTS SUPPLÉMENTAIRES | |
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SECTION IX – PREPARATION DATE OF M.S.D.S. / FICHE SIGNALÉTIQUE

PREPARED BY: Gus Kaklamanos - CHEMIST

TELEPHONE NO.: (416) 2617182

DATE: January 5, 2015

ADDITIONAL NOTES OR REFERENCES / NOTES ADDITIONNELLES OU RÉFÉRENCES:

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. All five-gallon pails and larger metal containers including tank cars and tank trucks should be grounded when material is transferred. Containers of this product may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and or solid), all hazard precautions given in the data sheet must be observed.

WHMIS CLASSIFICATION: Class B, Div 3
Class D, 2B