

Material Safety Data Sheet

Chrome Roller Cleaner and Desensitizer

MSDS No. B024

Date of Preparation: 07/25/12

Revision: 7/25/12

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Chrome Roller Cleaner and Desensitizer

Product Class: Soluble Water Base Solution

CAS Number: Mixture – Not Established

General Use: Cleaner and Protective Coating for Printing Equipment Rollers

Manufacturer: Burnishine Graphic Products, 25392 West Park Court, Lake Villa, IL 60046, Phone (847) 356-2553, Fax (847) 356-3177, Work Hours 9-5, Emergency Phone Number 800-535-5053 (Infotrac)

Section 2 - Composition / Information on Ingredients

| INGREDIENTS | CAS NUMBER | %vol or %wt | OSHA PEL | ACGIH TLV |
|---------------------------|------------|-------------|--------------------|----------------------|
| Water | 7732-18-5 | 50-75 | None Est. | None Est. |
| Glycol Ether EB | 111-76-2 | 3-10 | 50PPM | 20PPM |
| Ethylene Glycol | 107-21-1 | 2-10 | None Est. | 100MG/M ³ |
| Isoparaffinic Hydrocarbon | 64742-48-9 | 2-7 | 500PPM | 100PPM |
| Phosphoric Acid | 7664-38-2 | 1-2 | 1ME/M ³ | 3MG/M ³ |

Section 3 – Health Hazard Identification

EMERGENCY OVERVIEW

Combustible liquid and vapor keep away from heat and flames. Causes eye, skin and respiratory tract irritation. Harmful if swallowed. Avoid breathing vapors or mists for prolonged periods of time.

Appearance: Muddy Blue Liquid with a Slight Solvent Odor.

Routes of Exposure: Inhalation, Skin Absorption, and Eye Contact

Target Organs: Eyes, skin, and respiratory system.

Inhalation: Vapor or mists may cause irritation to the entire respiratory tract. Headaches, coughing, and dizziness can result.

Eye: Vapors or mists can cause moderate to severe irritation depending on the concentration of fluid. Tearing, redness, swelling, and blurred vision may result.

Skin: May cause mild irritation. Possible redness or drying of skin.

Ingestion: Severe irritation of the gastrointestinal tract. Abdominal pain, nausea, vomiting, diarrhea, lethargy and central nervous system disturbances may result.

Carcinogenicity: IARC, NTP, and OSHA do list a few of the ingredients as a carcinogen. Review Section 11 Toxicological Information.

Medical Conditions Aggravated by Long-Term Exposure: Any pre-existing diseases or disorders of the nervous system, respiratory system, skin, eyes, and gastrointestinal tract.

Chronic Effects: Possible skin and respiratory diseases may result if there is prolonged or repeated contact. Inhalation and ingestion may produce central nervous system, circulatory system and gastrointestinal system disturbances.

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Section 4 - First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

Eye Contact: IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION IMMEDIATELY.

Skin Contact: IMMEDIATELY flush skin thoroughly with cool water for at least 15 minutes and remove contaminated clothing and shoes. Wash thoroughly with soap and water. Get medical attention if irritation develops.

Ingestion: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water, do not induce vomiting. Keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

Note to Physicians: Treat Symptoms.

Special Precautions/Procedures: *After first aid, get appropriate in-plant, paramedic, or community medical support.*

Section 5 - Fire-Fighting Measures

Flash Point: Estimated at 127°F

Flash Point Method: TCC

Autoignition Temperature: No data

LEL: No data

UEL: No data

Extinguishing Media: Water spray, dry chemical, carbon dioxide, and alcohol foam.

Unusual Fire or Explosion Hazards: Combustible liquid. This product contains combustible organic components creating ignitable vapors when containers are heated. Heated vapors may be ignited by flames or sparks. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air and may travel long distances along ground before igniting.

Hazardous Combustion Products: Product may react with some metals (Aluminum, Zinc, Tin) to release hydrogen gas.

Fire-Fighting Instructions: Combustible liquid. Extinguish all sources of ignition. Keep away from heat, sparks, and flames.

Use extinguishing media appropriate for surrounding fire. Use water spray to cool nearby containers and structures exposed to fire. Do not release runoff from fire control methods to sewers or waterways. Keep personnel removed and upwind.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode with full protective clothing.



Section 6 - Accidental Release Measures

Spill/Leak Procedures: Combustible liquid. Review section on fire fighting measures, use appropriate personal protective equipment measures during cleanup. Extinguish all ignition sources for combustible products with flash points and ventilate area. Dike area with inert materials to contain spill. Prevent liquid from entering sewers, waterways or low areas. Transfer liquids and solid diking material to separate suitable approved containers for recovery or disposal. Do not flush into sewer, clean up residue with soap and water. Keep non-authorized personnel away. Spill area will be slippery, use care to avoid falling.

Waste Disposal Method: Recovery and reuse rather than disposal should be the ultimate goal of handling efforts after spill. Dispose of recovered non-usable non-hazardous liquid product and material used in cleaning up the spill in a manner approved for this material. Review Section 13 for proper disposal procedures and follow all federal, state and local regulations.

Regulatory Requirements: Any environmental release of a material that could cause harm to people or to the environment must be reported immediately to the national response center (NRC) by calling 800-424-8802 (CERCLA) and to the appropriate state and local agencies (SARA).

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Section 7 - Handling and Storage

Handling Precautions: This is a combustible product and should be used with caution. Do not get in eyes, skin, or on clothing. Harmful if inhaled, absorbed through skin or swallowed. Prevent possible eye and skin contact by wearing the recommended protective clothing and equipment. Wash thoroughly after handling. Remove contaminated clothing after use. Do not breathe vapors or mist. Do not ingest. Do not cut, grind, puncture, drill, or weld near or expose containers to heat, flames, or other sources of ignition. Keep containers closed when not in use. Vapors are combustible to open flames. Vapors may accumulate and travel to distant ignition sources and flash back. Do not use pressure to empty containers. Always loosen closure cautiously when opening. Use in an area that will allow for evaporation to run off. Prevent soil contamination and entry into storm and floor drains, streams, and into any body of water.

Storage Requirements: Combustible liquid. Store in a cool, dry, well-vented area away from direct sunlight, heat, flames and sparks in a controlled environment. Do not store near combustible materials or liquids. Do not store in open unlabeled or mislabeled containers. Empty containers retain product vapor or residue. Follow all label warnings even after container is empty. Keep from freezing. Keep out of reach of children.

Section 8 - Exposure Controls / Personal Protection

Ventilation: Ensure good general ventilation. Use local exhaust ventilation to draw spray, mists and vapors away from work area to prevent inhalation of product fumes. Provide general or local exhaust ventilation systems using corrosive resistant materials to maintain airborne contaminants below any recommended or standard occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. Ventilation guidelines may be found in OSHA Regulation (29CFR 1910.94) or in publications such as: American Conference of Governmental Industrial Hygienist.

Respiratory Protection: If using in a confined area and fumes are present use a respirator. None required under normal circumstances of use if ventilation systems are maintaining airborne contaminant concentrations below standard occupational exposure limits. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH organic vapor cartridge with a particulate prefilter approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves and aprons to prevent skin contact per OSHA Regulation (29CFR 1910.138). Wear protective eyeglasses with side shields or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Muddy Blue Liquid with Slight Solvent Odor.

Odor Threshold: Vapor Pressure: Not Determined

Vapor Density (Air=1): Not Determined

Specific Gravity (H₂O=1, at 72°F (22°C): 1.01

pH: 7.0 to 8.0

Water Solubility: Partial

Boiling Point: Estimated at 212°F (100°C)

Freezing Point: Estimated at 20°F (-7°C)

Viscosity: Estimated at 72°F Water-Like

Voc Content: 23.6%

Evaporation Rate: Not Determined

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Section 10 - Stability and Reactivity

Stability: Stable in a controlled environment in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization should not occur.

Chemical Incompatibilities: Strong oxidizing and reducing agents, strong alkali nitrites, and acids.

Conditions to Avoid: Combustible liquid. Avoid using or storing product in elevated temperatures or near heat, sparks, open flames, or ignition sources. Prolonged contact with metals could produce small amounts of flammable hydrogen gas.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other toxic gases.

Section 11 - Toxicological Information

***Specific tests have not been conducted on this product. Our evaluations based on information from similar products, the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.**

| | |
|------------------------------|---|
| Eyes | Eye contact with liquid or mist can cause severe irritation. Which may result in temporary blurred vision. |
| Skin | Skin LD50: Not established/ No data Brief contact would cause minimal irritation to the skin. Prolonged contact may cause moderate skin irritation. This product is not known to be a sensitizer. |
| Inhalation | Inhalation LC50: Not established/ No data The product is not expected to present a significant inhalation hazard if work area is properly ventilated. Prolonged inhalation of vapors, mists, or fumes will cause irritation of respiratory tract creating headaches, nausea, weakness, and drowsiness. |
| Ingestion | Oral LD50: Not established/ No data Ingestion is not regarded as significant health hazard likely to arise from normal use. Ingestion will cause severe irritation to digestive tract. Abdominal pain, nausea, vomiting and diarrhea will likely occur. |
| Chronic Toxicity | There are no reports of long-term adverse toxic effects in man attributable to the use of this type of product. The product does contain ingredients, or which are derived from components, that potentially may affect the following target organs: eyes, skin, and respiratory system. |
| Carcinogenicity | IARC, NTP, and OSHA do list a few of the ingredients as a possible A2 carcinogen. Silica Crystalline Quartz (14808-60-7) Sodium 2-Biphenylate (132-27-4). ACGIH Lists Glycol Ether EB as an "A3" confirmed animal carcinogen with unknown relevance to humans. |
| Mutagenicity | There are no reports of mutagenic effects attributable to the use of this type of product or from its ingredients. |
| Reproductive Toxicity | There are no reports of reproductive effects attributable to the use of this type of product or from its ingredients. |

Section 12 - Ecological Information

***Specific tests have not been conducted on this product. Our evaluation is based on information from similar products, the ingredients and technical literature. This information should be used only for small spills and not meant to address discharges to sewers or treatment plants. Data for this material has been used to estimate its environmental impact.**

Ecotoxicity: This material has a moderate potential for toxicity.

Environmental Fate: Moderate biochemical oxygen demand and moderate potential to cause oxygen depletion in aqueous systems. A moderate potential to affect aquatic organisms.

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Environmental Degradation: When diluted with large amounts of water, this material released into the environment is not expected to have a significant impact. A moderate potential to persist in the environment.

Soil Absorption/Mobility: This material is expected to be mobile in soil and not expected to absorb suspended solids or sediments in water. A moderate potential to affect plant life.

Section 13 - Disposal Considerations

Disposal: Do not discharge this material into lakes, streams, ponds or other waters. Do not discharge this material into sewer systems without approval from local sewage treatment plant authority. Care must be taken to prevent environmental contamination from the use of this material. If material is not approved to be discharged into sewer system contact a licensed waste management contractor for detailed recommendations for disposal. Follow applicable Federal, state, and local regulations. Hazardous liquid can be incinerated if it meets all OSHA and EPA regulations. Incinerate at a licensed waste disposal site with approved environment authority. If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

Disposal Regulatory Requirements: Follow applicable NRC, CERCLA, SARA, and RCRA regulations.

Container Cleaning and Disposal: Prior to cleaning or disposing of container use caution when handling empty container.(Combustible Liquid) Do not use pressure to empty containers. Empty containers retain product vapor or residue that are combustible. Do not cut, weld, braze, solder, drill, grind, or expose empty containers to heat flames or other sources on ignition. Follow all label warnings even after container is empty. Follow applicable federal, state and local OSHA and EPA regulations.

Section 14 - Transport Information

U.S. Road Transportation DOT Data (49 CFR 172.101):

Not regulated as hazardous material when packed in 32oz. containers. (Limited Quantity Exception)

Canadian Road Transportation (TDG):

Not regulated as hazardous material when packed in 32oz. or containers.(Limited Quantity Exception)

Ocean Transportation (IMO/IMDG):

Classified as hazardous material (flammable liquid) Review Ocean Transport Regulations for proper shipping description and labeling.

Air Transportation (ICAO/IATA):

Classified as a hazardous material (flammable liquid). Packaging does not meet requirements for shipping by air.

Flammable Liquid, N.O.S., (Petroleum Distillates), 3, UN1993, PGIII

Section 15 - Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status:

The components for this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 35):

Components:

Ethylene Glycol (107-21-1)

Concentration:

Section 304 CERCLA Hazardous Substances (40 CFR 302):

Components:

Ethylene Glycol (107-21-1)

Reporting Qty:

Phosphoric Acid (7664-38-2)

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Section 311/312 Hazard Class (40 CFR 370):

Acute: Yes
Chronic: No
Fire: Yes
Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372):

Components:

Reporting Threshold: 1.0%

Glycol Ether EB (111-76-2)
Sodium 2-Biphenylate (132-27-4)
Ethylene Glycol (107-21-1)

RCRA – Product Disposal (40 CFR 261):

If discarded in its purchased form, this product would be a hazardous waste due to its flammability. However, under RCRA it is the responsibility of the product user at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (Review Section 13 for proper disposal procedures)

OSHA Air Contaminants Standard (20 CFR 1910.1000):

The following components of this product are listed as having limits for air contaminants:

Glycol Ether EB (111-76-2)
Dipropylene Glycol Methyl Ether (34590-94-8)
Silica, Crystalline Quartz (14808-60-7)

State Right to Know Information

California Prop 65

The product contains the following chemicals known to state of California to cause cancer and or birth defects based on maximum impurity levels of components:

Silica Crystalline Quartz (14808-60-7)
Sodium 2-Biphenylate (132-27-4)
Arsenic Trace Amounts
Ethylene Oxide Trace Amounts
Formaldehyde Trace Amounts
Nickel Trace Amounts
Lead Trace Amounts
1,4 Dioxane(123-91-1) Trace Amounts

Pennsylvania, Massachusetts & New Jersey Hazardous Substance List

The following components in this product are listed as hazardous at levels which require reporting.

Glycol Ether EB (111-76-2)

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International Regulations

Inventory Status

Europe (EINECS)

Canada (DSL)

The components of this product are on the above inventory lists or are exempt from their inventory requirements.

Canada WHMIS Classification: Class B3

Section 16 - Other Information

Prepared By: MSDS Coordinator

Revision Notes: None

Additional Hazard Rating Systems: None

Disclaimer: This material safety data sheet and the information it contains is offered to you in good faith as a guide to the safe use of the product and believed to be accurate to the best of our knowledge. Not all information in this data sheet is supported by specific testing and the evaluations are based on information from similar products, the ingredients and technical literature. The data contained herein is provided for your guidance only when handling the specific material designated in this MSDS and does not relate to any process or to use with any other materials. We recommend testing to determine the suitability of this product for your particular purpose prior to use. No responsibility is accepted that the information is sufficient, correct, and complete in all circumstances, as to the safety and health of individuals, disposal of materials and protection of the environment. It is the user's obligation to consider this MSDS as a supplement to other information required to make an independent determination to assure compliance to applicable laws and regulations when handling this material. The data in this document is provided without any representation or warranty expressed or implied regarding its accuracy or correctness. No warranty, either expressed or implied of merchantability or fitness or of any nature is made with respect to any product referred to herein. Manufacturer does not assume responsibility and expressly disclaims liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the products referred to herein. Manufacturer urges persons receiving this data to make their own determination as to the information's suitability and completeness for their particular application.