

SAFETY DATA SHEET

ALUMINUM BRIGHTENER

SDS No. B0043

Date: 10/10/16

Section 1 – Identification of Mixture and Supplier

Product Name: Aluminum Brightener

SDS Number: B0043

CAS Number: Mixture-Not Established

Product Description: Cleans aluminum surfaces

Manufacturer/Supplier: Burnishine Graphic Products, 25392 W. Park Court, Lake Villa, IL 60046,

Phone: 847-356-0222, FAX 847-306-3550, WORK HOURS 8-5 CST

EMERGENCY PHONE NUMBER (INFOTRAC) 800-535-5053 or 352-323-3500.

Section 2 – Hazard Identification

GHS Classification of the Substance or Mixture		
Health	Environmental	Physical
Skin Irritant – Category 2 Respiratory Tract Irritant – Category 3 Serious Eye Damage – Category 1 Acute Toxicity/Oral- Category 4 Acute Toxicity/Inhalation – Category 5	None Known	Corrosive to Metals – Category 1

GHS Label Elements



Signal Word: Danger

Hazard Statements:

H200s = Physical H300s = Health H400s = Environmental

- H290 May be corrosive to metals
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H333 May be harmful if inhaled
- H335 May cause respiratory irritation

Precautionary Statements:

P200s = Prevention P300s = Response P400s = Storage P500s = Disposal

- P234 Keep only in original container
- P261 Avoid breathing fumes/mists/ vapors/ or spray
- P264 Wash hands thoroughly after handling
- P270 Do not eat/drink/or smoke when using this product
- P271 Use only in a well ventilated area
- P280 Wear protective gloves/clothing/and eye/face protection
- P301+312 If swallowed: call a poison center or doctor/physician if you feel unwell/ rinse mouth with plenty of water
- P302+352 If on skin: wash with plenty of soap and water
- P310 Immediately call a poison center or doctor/physician
- P332+313 If skin irritation occurs: get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P305+351+338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313 If eye irritation persists: get medical advice/attention
- P304+340 If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing
- P304+312 If inhaled: call a poison center or doctor/physician if you feel unwell
- P403+233 Keep container tightly closed, store in a well-ventilated place
- P403+235 Store in well-ventilated place/keep cool
- P501 Dispose of contents/container according to local regulations

HMIS

Health -2
Fire -1
React -0

PPE† Sec.8

Section 3 – Composition / Information on Ingredients

Ingredient Name	CAS No.	% WT.
Water	7732-18-5	70-85
Phosphoric Acid 85%	7664-38-2	3-6
Glycol Ether EB	111-76-2	3-5
Isopropanol 99%	67-63-0	1-2
Anionic/Nonionic Surfactants	Mixture	1-3

Section 4 - First Aid Measures

Inhalation: Nasal irritation, nausea, dizziness, coughing, headache, shortness of breath, weakness, discoloration of face. Remove Person from source of exposure to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if person is not breathing. GET IMMEDIATE MEDICAL ATTENTION.

Skin Contact: Itching, redness or drying of skin. Immediately flush skin thoroughly with plenty of water for several minutes and then wash skin with soap and water. Remove contaminated clothing and was before reuse. If skin irritation persists, GET IMMEDIATE MEDICAL ATTENTION.

Eye Contact: Possible burns to the eyes. Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding open eyelids apart to ensure complete irrigation of all eye and lid tissue. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, GET IMMEDIATE MEDICAL ATTENTION.

Ingestion: Burns of the mouth and throat. Serious abdominal pain and nausea. Do not induce vomiting. If person is conscious, rinse mouth or give them a glass of water. If person is drowsy or unconscious and vomiting, place person on left side with head down. GET IMMEDIATE MEDICAL ATTENTION.

Note to Physicians: Treat Symptoms

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

See Section 11 for more detailed information on health effects and symptoms.

Section 5 - Fire-Fighting Measures

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

Unusual Fire or Explosion Hazards: This product contains combustible organic components creating possible ignitable vapors when containers are heated.

Hazardous Combustion Products: Combustion of product can produce toxic gases (oxides of nitrogen) product may react with some metals (Aluminum, Zinc, Tin) to release hydrogen gas.

Fire-Fighting Instructions: 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 into 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.

NFPA

Health -2
Fire -1
React -0

Section 6 - Accidental Release Measures

Personal Precautions: Wear appropriate personal protective equipment as conditions warrant. (Review Section 8) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Follow all precautions for handling spill (Review Section 7). Isolate spill or leak area and deny entry of untrained personnel.

Emergency Procedures: Isolate spill or leak. Eliminate all ignition sources. No smoking, flares, sparks, or flames in spill area. Ventilate spill area if fumes are present, keep unauthorized personnel away. Stay up-wind of any fumes.

Spill/Leak Containment and Cleanup: All equipment used when handling the spill must be grounded or non-sparking tools. Stop leak if you can do it without risk. Small spills: take up with sand or other non-combustible absorbent material and place into approved containers for later disposal. Large spills: dike area with non-combustible absorbent material to contain spill. Prevent spill from entering sewers, waterways, or low areas. Transfer spilled liquid and diking material to suitable approved containers for recovery or disposal. Do not flush spilled material into a sewer. Neutralize remaining spilled material with a diluted solution of acid if the spilled material is an alkaline or a diluted solution caustic if the spilled material is acidic. Clean up residue with soap and water. Do not flush to sewer or waterways. Prevent release to the environment.

Refer to Section 13 for Proper Disposal of Spilled Material.

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) and to the appropriate state and local agencies.

Section 7 - Handling and Storage

Handling Precautions: This is an acidic product and should be used with caution. Do not get in eyes, on 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; use with adequate ventilation. Vapors are combustible to open flames. 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. Do not use pressure to empty containers. Always loosen closure cautiously when opening. Use in an area that will allow for evaporation or run off. Prevent soil contamination and entry into storm and floor drains, streams and into any body of water.

Storage Requirements: 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

Exposure Limits / Guidelines Ingredient Name	OSHA PEL	ACGIH TLV
Water	None Estab.	None Estab.
Phosphoric Acid 85%	1mg/m ³	3mg/m ³
Glycol Ether EB	50 ppm	20 ppm
Isopropanol 99%	400 ppm	400 ppm
Anionic/ Nonionic Solution	None Estab.	None Estab.

Engineering Controls for 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 contamination dispersion into the work area by controlling it at its source. Ventilation guidelines may be found in OSHA Regulations (29CFR 1910.94) or in publications such as: American Conference of Governmental Industrial Hygienist.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: If using in a confined area and fumes are present, use a respirator. None required under normal circumstances of use if 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-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 non-routine 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.

Eye Protection: Wear 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. Have an eye wash station available where eye contact can occur.

Skin Protection: Wear chemically protective gloves impervious to conditions of use. Neoprene, nitrile, or butyl type rubber gloves. Additional protection may be necessary to prevent skin contact, including use of apron, face shield, boots, or full body protection. A safety shower should be located in the general work area.

General Hygiene: Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Launder contaminated work clothes before reuse and keep personal protective equipment clean.

Section 9 - Physical and Chemical Properties

Appearance: Hazy Liquid

Odor: Solvent Odor

pH: 1.00-2.00

Freeze Point: Estimated at 10°F (-12°C)

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

Odor Threshold: Not Determined

Vapor Pressure: Not Determined

Vapor Density (Air=1): Not Applicable

Specific Gravity (H₂O=1, at 72°F): 1.02

Water Solubility: 100%

Flash Point: Above 140°F

Upper/Lower Flammability: Not Determined

Auto Ignition Temp: Not Determined

Evaporation Rate (Water=1): Not Determined

Partition Coefficient, N-Octanol/Water: Not Determined

Decomposition Temp: Not Determined

Viscosity: 72°F Sp#3 at 20rpm – 600cps

VOC Content: 5.0%

Section 10 - Stability and Reactivity

Reactivity: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable in controlled environment away from direct sunlight and stored at ambient temperatures.

Hazard Reactions: Hazardous reactions will not occur.

Incompatible Materials: Strong oxidizing and reducing agents, and strong alkali nitrites.

Conditions to Avoid: 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 to chemical burns. Which may result in temporary blurred vision and possible permanent eye damage.
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 burns of mouth, throat, and digestive tract. Severe 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, respiratory system, liver, kidneys and central nervous system.
Carcinogenicity	IARC, NTP and OSHA do list one of the ingredients as a possible carcinogen. ACGIH lists Glycol Ether EB (111-76-2) as an A3 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 in humans.

Section 12 – Ecological Information

***Specific tests have not been conducted on this product. Our evaluations 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.**

Toxicity: This material has a moderate potential for toxicity. Moderate biochemical oxygen demand and moderate potential to cause oxygen depletion in aqueous systems. A moderate potential to affect aquatic organisms. Acidic Material (Ph of 1-2) if released to surface water this compound will cause the pH to fall depending on the buffering of the body of water. Aquatic organisms become stressed as pH drops below 5 and intolerant of pH below 4.

Environmental Degradation: This product is readily biodegradable when diluted with large amounts of water, this material released to the environment is not expected to have significant impact. (Minimum of 50 parts water to 1 part product). A low potential to persist in the environment.

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

Section 13 - Disposal Considerations

Waste Disposal Methods: As sold, this product when discarded or disposed of is a hazardous waste. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with (40 CFR 261, 262, 263, 264, 268, and 270). Do not discharge this material into lakes, streams, ponds, or other waters. Do not discharge this material into sewer systems without the 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 all applicable Federal, state, and local regulations. This hazardous liquid can be incinerated if it meets all OSHA and EPA regulations. Incinerate at a licensed waste disposal site with approved environmental 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. Do not use pressure to empty containers. Empty containers retain product vapor or residue that is combustible. Do not cut, weld, braze, solder, drill, grind or expose empty containers to heat, flames or other sources of ignition. Follow all label warnings even after container is empty. Follow applicable federal, state and local OSHA and EPA regulations.

Section 14 - Transport Information

US Road Transportation DOT Data (49 CFR 172.101):

For packaging in 5 gallon or larger sizes: Corrosive Liquid, N.O.S., (contains phosphoric acid), 8, UN 1760 PG III.
For packaging sizes: 1 gallon or less only requires special labeling (Limited Qty Label) and appropriate packaging.

Canadian Road Transportation (TDG):

Corrosive Liquid, N.O.S., (contains phosphoric acid), 8, UN 1760, PG III.

Review Canadian Road Transportation (TDG) to determine if this product for the packaging sizes being shipped is considered dangerous goods. If this product is considered dangerous goods it may only require special labeling and appropriate packaging.

Ocean Transportation (IMO/IMDG):

Corrosive Liquid, N.O.S., (contains phosphoric acid), 8, UN 1760, PG III.

Review Ocean Transport Regulations to determine if this product for the packaging size being shipped is considered dangerous goods. If this product is considered dangerous goods it may only require special labeling and appropriate packaging.

Air Transportation (ICAO/IATA):

Corrosive Liquid, N.O.S., (contains phosphoric acid), 8, UN 1760, PG III.

Quantity Limitations: A) Passenger Aircraft: 1 Liter B) Cargo Aircraft Only: 30 Liters

Review Air Transportation Regulations to determine if this product for the packaging size being shipped is considered dangerous goods.

Section 15 - Regulatory Information

U.S. Federal Regulations

Toxic Substance Control Act (TSCA) Inventory Status:

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

Super Fund Amendments & Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (40 CFR 355):

Components:	...	Concentration:
Glycol Ether EB (111-76-2)		

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

Immediate Hazard:	Yes
Delayed Hazard:	Yes
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

Section 313 Toxic Chemicals (40 CFR 372):

Components: ...
Glycol Ether EB (111-76-2)

Reporting Threshold:

Comprehensive Environmental Response and Liability Act (CERCLA):**Section 304 CERCLA Hazardous Substances (40 CFR 302):**

Components: ...
Glycol Ether EB (111-76-2)

Reporting Qty:

OSHA Air Contaminants Standard (20 CFR 1910.1000):

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

Polyethylene Oxide (25322-68-3)
Isopropanol 99% (67-63-0)
Glycol Ether EB (111-76-2)

State Regulations**California Proposition 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:

1,4 Dioxane (123-91-1)
Phosphoric Acid 85% (7664-38-2)

Pennsylvania, Massachusetts & New Jersey Hazardous Substance List

The following components in this product are listed as hazardous at levels that may require reporting:

Isopropanol 99% (67-63-0)
Glycol Ether EB (111-76-2)

International Regulations**Canadian Environmental Protection Act (CEPA):**

The components for this product are included on the Canadian Domestic Substances List. (DSL)

Canadian Workplace Hazardous Materials Information System (WHMIS):

Class D2B- Skin/eye irritation- Reversible Damage
Class E- Corrosive Material, pH < 2.0

Section 16 - Other Information

Prepared By: SDS Coordinator

Revision Date: 10/10/16

Disclaimer: This 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 SDS 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 SDS as a supplement to the 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 any way 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.