SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Echo® Aluminum Cleaner™**
PRODUCT TYPE: Acid Cleaner
PRODUCT CODE: DE40

MANUFACTURED FOR: Echo International, Inc.
420 St. Paul Street
Rochester, NY 14605
(800) 876-0222
EMERGENCY (585) 275-3232

SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION: DANGER: Causes severe skin burns and eye damage. Harmful if swallowed or inhaled. Keep out of reach of children.

PRECAUTIONARY STATEMENTS:
Eyes: Corrosive. Causes skin burns.
Skin: Corrosive. Causes eye burns.
Inhalation: May be irritating to mucous membranes.
Ingestion: Harmful if swallowed. Do not ingest.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%
Water	7732-18-5	75-90%
Phosphoric Acid	7664-38-2	5-15%
Dipropylene Glycol Methyl Ether	34590-94-8	2-8%
Alcohol Ethoxylate	34398-01-1	<1%

SECTION 4 FIRST AID MEASURES

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.
If on skin: Take off contaminated clothing and wash before reuse. Wash with plenty of water. Call a physician if irritation persists.
If swallowed: Rinse mouth. Call a physician if you feel unwell.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a physician if you feel unwell.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Appropriate for surrounding fire.
SPECIFIC/UNUSUAL HAZARDS: Irritating gasses may be produced which will require SCBA or a fresh air source.
SPECIAL FIRE FIGHTING EQUIPMENT and PRECAUTIONS for FIREFIGHTERS: As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.
Environmental precautions: Prevent further leakage or spillage if safe to do so.
Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.
Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: A large spill is not likely to occur.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid breathing mist. Avoid contact with skin and eyes. Wear suitable protective clothing including impermeable gloves and a face shield. Wash hands after handling.
Storage: Keep from freezing. Keep containers tightly closed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: NE

Occupational exposure limits:

Component:	TWA	STEL
Phosphoric Acid:	1 mg/m3	3 ppm
Dipropylene Glycol Methyl Ether	100 ppm	150 ppm

Appropriate Engineering Controls: Maintain adequate local exhaust ventilation.
Individual Protective Measures - Personal Protective Equipment:
Gloves: Wear impervious gloves.
Eye/Face Protection: Wear a face shield, safety glasses or goggles.
Skin Protection: Wear clothing suited to the task being performed.
Respiratory Protection: Not normally required if good ventilation is maintained.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Colorless Liquid
ODOR: Faint Soapy Scent
ODOR THRESHOLD: ND
MELTING/FREEZING POINT: ND
BOILING POINT: >212°F (>100°C)
BOILING RANGE: ND
FLASH POINT: None
LOWER EXPLOSIVE LIMIT: NA
UPPER EXPLOSIVE LIMIT: NA
FLAMMABILITY (solid, gas): Not Flammable
AUTOIGNITION TEMPERATURE: ND
EVAPORATION RATE (Butyl Acetate=1): ND
VAPOR PRESSURE: ND
VAPOR DENSITY (air=1): ND
RELATIVE DENSITY: (H_2O=1): 1.06
SOLUBILITY IN WATER: Completely Soluble
PARTITION COEFFICIENT (n-octanol/water): ND
pH: 1.5
DECOMPOSITION TEMPERATURE: ND
VISCOSITY: ND
PERCENT VOLATILE BY VOL %: 88%
CARB VOC: 5%

SECTION 10 STABILITY and REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions.
POSSIBILITY of HAZARDOUS REACTIONS: Hazardous Reactions are not likely.
CONDITIONS TO AVOID: ND
INCOMPATIBLE MATERIALS: Strong bases or reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Oxides of Phosphorous, Hydrocarbon fumes and smoke.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: No data available.

INGREDIENTS	CAS #	PEL	TLV	STEL
Phosphoric Acid	7664-38-2	NE	1 mg/m3	3 ppm
Dipropylene Glycol Methyl Ether	34590-94-8	100 ppm		150 ppm

LIKELY ROUTES of EXPOSURE:
INHALATION: No
INGESTION: No
SKIN CONTACT: Yes
EYECONTACT: No

SYMPTOMS:
EFFECTS OF EXPOSURE:
IMMEDIATE: ND
DELAYED: ND
SHORT-TERM: ND
LONG-TERM: ND

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY: No Data Available.
PERSSISTANCE and DEGRADABILITY: ND
BIOACCUMULATIVE POTENTIAL: ND
MOBILITY in SOIL: ND
OTHER ADVESE EFFECTS: None Known.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose according to all applicable Federal, State, and Local regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number: 1805
UN Proper Shipping Name: Phosphoric Acid Solution
Transport Hazard Class(es): 8
Packing Group: PG III
Marine Pollutant: ND
Special Precautions: None Required

DOT Classification in appropriate packaging: Consumer Commodity ORM-D, or Limited Quantity.

SECTION 15 REGULATORY INFORMATION

US federal regulations: All components are listed in the United States TSCA Regulations.

CERCLA (Superfund) reportable quantity: None

SARA (Superfund Amendments and Reauthorization Act of 1986):
313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Section 302 extremely hazardous substance: No
Section 311 hazardous chemical: No

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

SECTION 16 OTHER INFORMATION

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings	Health: 3
	Flammability: 0
	Physical hazard: 1
NFPA ratings	Health: 3
	Flammability: 0
	Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

Disclaimer Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitute consent to these terms and conditions.

PREPARED: 12/15/1987 UPDATED: 1/23/2020 PRODUCT #: DE40