

PRODUCT BULLETIN

CTI 1000

Aluminum Cleaner/Brightener/Polish

Product Introduction: CTI 1000 is a ready to use complex formulation of environmentally friendly ingredients formulated to be 100% biodegradable. This product is designed for cleaning the finished product e.g. horse trailers, recycling trucks, feed carriers, semi dumps, bulk carriers (milk, flour, cement, petroleum, etc.), wheels, fuel tanks and cattle pots at the owner's level and fleet operator's facility.

Process Introduction: CTI 1000 formula is designed to effectively remove residual dirt, oils, black welding soot, corrosion, oxide films, design marker and microscopic projections from polished and extruded aluminum surfaces without "white" etching or pitting.

Process Specificity: The cleaning ability of this product is restricted to quality rolled or extruded primary aluminum and stainless steel articles. CTI 1000 is applied as a light mist to the surfaces to be cleaned using a spray applicator. It is designed for the retention and restoration of high optical reflectivity on polished metal surfaces. This chemical treatment procedure pacifies the aluminum metal surface and inhibits against corrosion. As the new aluminum surface is not exposed to the air, it will form a natural aluminum oxide film protecting it against pit corrosion. Accessories on finished units, such as light assemblies, reflectors, plastics, glass, brass, decals, logos, wood, tarps, mud flaps, or rubber tires are not altered or defaced by this chemical solution when used according to directions.

SPECIFICATION DATA

Form:	Liquid
Color:	Clear
Odor:	Characteristic
Detergency:	Excellent
Wetting Ability:	Excellent
Foaming:	Moderate
Stability:	One year minimum shelf life at room temperature
Flash Point:	None
Specific Gravity:	1.1 ± 0.05 (at 60/60°F)
Solubility:	Complete
pH:	<1.0
Biodegradable	Yes

The product data is based on tests and information we believe to be reliable. They are descriptive only and not intended as warranties. Because Midwest Cleaning Technology has no control over conditions of use, we make no warranty regarding the fitness of these products for a particular application. We disclaim responsibility for damage or injury to person or property resulting directly or indirectly from use of these products.

MIDWEST CLEANING TECHNOLOGY

6178 State Route 82 · Hiram, OH 44234 · (330) 569-3255

U.S DEPARTMENT OF LABOR
Occupational Safety and Health Administration

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION

Product Name: CT11000
Supplier's Name: Midwest Cleaning Technology, Inc.
Supplier's Address: 6178 State Route 82, Hiram, OH 44234
Supplier's Phone Number: (330) 569-3255
Emergency Phone Number: (800) 535-5053
Proper Shipping Name: Compound, cleaning, liquid, (sulfuric acid and phosphoric acid), 8, NA 1760, PG II
Effective Date: 3-31-99

SECTION 2

IDENTITY INFORMATION AND HAZARDOUS INGREDIENTS

Chemical Name	CAS No.	PEL	TL V	Carcinogen
Sulfuric Acid	7664-93-9	1mg/m ³		no
Phosphoric Acid	7664-38-2	1mg/m ³	1mg/m ³ 1mg/m ³	no

PHYSICAL DATA

SECTION 3

Boiling Point:	220°F @760mmhg	Specific Gravity:	1.1±0.05
Physical Appearance:	Clear liquid, characteristic odor	Evaporation Rate: (water=1)	>1
pH (conc):	<1.0	Vapor Density: (air=1)	1+
Solubility in water:	Complete		

SECTION 4

FIRE AND EXPLOSION HAZARD OAT A

Flash Point: Non-flammable
Extinguishing Media: Product is non-flammable. Use appropriate extinguishing media for the surrounding fire.
Special Fire Fighting Procedures: Standard fire-fighting procedures may be followed, including self-contained breathing apparatus and full protective clothing.
Unusual Fire and Explosion Hazards: None known.

SECTION 5

REACTIVITY OAT A

Stability: Stable
Incompatibility (Materials to Avoid): Do not mix with chlorine bleach or other chemicals.
Hazardous Decomposition or Byproducts: Acidic vapors in a fire and some metals may liberate hydrogen gas.
Hazardous Polymerization: Will not occur.

SECTION 6

STORAGE AND HANDLING INFORMATION

Precautions to be taken in Handling and Storing:

Empty containers retain product residue which should be treated in accordance with all precautions on this data sheet.

KEEP AWAY FROM CHILDREN
FOR USE BY TRAINED PERSONNEL ONLY

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY
KEEP CONTAINER CLOSED DURING STORAGE

SECTION 7**HEALTH HAZARDS AND FIRST AID****Effects of Overexposure:**

SKIN: Concentrate may cause skin irritation, reddening or dermatitis upon repeated contact.
EYES: Concentrate is an eye irritant and may cause irritation, redness or tearing.
INHALATION: Concentrated vapors may cause irritation.
INGESTION: If swallowed, product may be irritating to the gastrointestinal system.

First Aid Procedures:

SKIN: Immediately flush exposed area with water for at least 15 minutes. If irritation persists, get medical attention. Remove contaminated clothing and launder before reuse.
EYES: Immediately flush with large quantities of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
INHALATION: Remove person to fresh air. If irritation persists, get medical attention.
INGESTION: DO NOT induce vomiting. Dilute by giving water or milk. Note: Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet. Get medical attention immediately.

SECTION 8**SPECIAL PROTECTION INFORMATION**

Respiratory Protection: If TLV is exceeded, NIOSH/MSHA air respirator advised.
Ventilation: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: As with all cleaners, Midwest CTI supports employee safety as priority #1. Therefore, we recommend the use of impervious, waterproof gloves.
Eye Protection: As with all cleaners, Midwest CTI supports employee safety as priority #1. Therefore, we recommend the use of safety glasses or chemical splash goggles.
Other Protection: Impervious clothing or apron.

SECTION 9**SPILL OR LEAK PROCEDURE****Steps To Be Taken In Case Material is Released or Spilled:**

Prevent product from accessing sewer or other water sources. Neutralize retained product. Wash neutralized product to sewer with large amounts of water.

Waste Disposal Method: Any method in accordance with applicable laws.

This information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition. We make no warranties, express or implied, and assume no liability in connection with any use of this information.