

Safety Data Sheet

Material Name: Aluma-Brite Aluminum Cleaner

*** Section 1 - Chemical Product and Company Identification ***

Product Name: Aluma-Brite Aluminum Cleaner

Chemical Usage: Cleaning Compound

Manufacturer Information

World's Best Corporation
1441 Harding Avenue
Eau Claire, WI 54701

Phone: 715-832-1717

*** Section 2 - Hazards Identification ***

Emergency Overview

Appearance – liquid

Colour – tan

Odour – mild

Hazard Summary

May be harmful by inhalation and ingestion.
This product may cause irritation to the eyes.
This product may cause irritation to the skin.

GHS Classification

Corrosive to metals: Category 1
Skin corrosion: Category 1A
Serious eye damage: Category

1

GHS label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

May be corrosive to metals
May cause irritation to skin and eyes

Precautionary statements:

Prevention:

Keep only in original container.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.

Storage:

Store locked up.
Store in corrosive resistant stainless steel container with a resistant inner liner.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

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Potential Health Effects

Inhalation: yes
Skin: yes
Ingestion: yes
Aggravated Medical Condition: None known

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH Confirmed animal carcinogen with unknown relevance to humans
2-Butoxy ethanol 111-76-2

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component
7732-18-5	Water
7664-38-2	Phosphoric acid
111-76-2	2-Butoxyethanol
112-34-5	Diethylene glycol monobutyl ether
Not Available	Trade Secret
7664-39-3	Hydrogen fluoride

Unidentified ingredients are considered not hazardous, or not required to be listed under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

First Aid: Skin

For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention.

First Aid: Ingestion

Give several glasses of water to dilute contents of stomach and call a physician.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Seek medical attention.

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*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Not combustible

Hazardous Combustion Products

Hydrogen by reaction with metals, oxides of phosphorus, and gaseous hydrogen fluoride

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Clean-Up Procedures

Dispose of in accordance with local, state and federal requirements.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

*** Section 7 - Handling and Storage ***

Handling Procedures

Unscrew closure slowly. Allow all pressure to escape through threads before removing closure.

Storage Procedures

Keep containers tightly closed to avoid contamination. Store indoors in a cool, well-ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Phosphoric Acid (7664-38-2)

ACGIH: 1 mg/m³ TWA

3 mg/m³ STEL

OSHA 1 mg/m³ TWA

3 mg/m³ STEL

NIOSH 1 mg/m³ TWA

3 mg/m³ STEL

2-Butoxyethanol (111-76-2)

ACGIH: 20 ppm TWA

OSHA: 25 ppm TWA; 120
mg/m³ TWA Prevent or
reduce skin absorption

NIOSH: 5 ppm TWA; 24
mg/m³ TWA Potential
for dermal absorption

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Hydrogen fluoride (7664-39-3)

ACGIH: 0.5 ppm TWA (as F)
2 ppm Ceiling (as F)
OSHA: 3 ppm TWA (as F)
6 ppm STEL (as F)
NIOSH: 3 ppm TWA; 2.5 mg/m³ TWA
6 ppm Ceiling (15 min); 5 mg/m³ Ceiling (15 min)

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles or a full face shield.

Personal Protective Equipment: Skin

Use impervious gloves. Use of an impervious apron is recommended.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Clear	Odor:	Characteristic
Physical State:	Liquid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H₂O):	ND	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	ND
Octanol/H₂O Coeff.:	ND	Flash Point:	ND
Flash Point Method:	ND	Upper Flammability Limit	ND
		(UFL):	
Lower Flammability Limit	ND	Burning Rate:	ND
(LFL):			
Auto Ignition:	ND		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Freezing temperatures.

Incompatibility

Avoid contact with chlorine-releasing materials and with glass, ceramic, or concrete. Incompatible with bases and strong oxidizers.

Hazardous Decomposition

Hydrogen by reaction with metals, oxides of phosphorus, and gaseous hydrogen fluoride

Possibility of Hazardous Reactions

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute toxicity

Component Analysis -

LD50/LC50 Water

(7732-18-5)

Oral LD50 Rat: >90 mL/kg

Phosphoric acid (7664-38-2)

Inhalation LC50 Rat: >850 mg/m³/1H; Oral LD50 Rat: 1530 mg/kg; Dermal LD50 Rabbit: 2730 mg/kg

2-Butoxyethanol (111-76-2)

Inhalation LC50 Rat: 2.21 mg/L/4H; Inhalation LC50 Rat: 450 ppm/4H; Oral LD50 Rat: 470 mg/kg;

Dermal LD50 Rat: 2270 mg/kg; Dermal LD50 Rabbit: 220 mg/kg

Diethylene glycol monobutyl ether (112-34-5)

Oral LD50 Rat: 3384 mg/kg; Dermal LD50 Rabbit: 2700 mg/kg

Hydrogen fluoride (7664-39-3)

Inhalation LC50 Rat: 850 mg/m³/1H; Inhalation LC50 Rat: 1276 ppm/1H

Carcinogenicity

Component Carcinogenicity

2-Butoxyethanol (111-76-2)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans IARC: Monograph 88 [2006] (Group 3 (not classifiable))

*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic

Toxicity Phosphoric acid (7664-38-2)

Test & Species

96 Hr LC50 Gambusia affinis 3-3.5 mg/L

12 Hr EC50 Daphnia magna 4.6 mg/L

Conditions

2-Butoxyethanol (111-76-2)

Test & Species

96 Hr LC50 Lepomis macrochirus 1490 mg/L [static]

24 Hr EC50 water flea 1720 mg/L

24 Hr LC50 Daphnia magna 1698-1940 mg/L

Conditions

Diethylene glycol monobutyl ether (112-34-5)

Test & Species

96 Hr LC50 Lepomis macrochirus 1300 mg/L [static]

96 Hr EC50 Scenedesmus >100 mg/L

subspicatus

24 Hr EC50 water flea 2850 mg/L

48 Hr EC50 Daphnia magna >100 mg/L

Conditions

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Hydrogen fluoride (7664-39-3)

Test & Species

48 Hr LC50 Lepomis macrochirus	660 mg/L
48 Hr EC50 Daphnia magna	270 mg/L

Conditions

*** Section 13 - Disposal Considerations ***

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Class 10, non-hazardous liquid. Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

TSCA Status: All components of this material comply with US TSCA requirements.

OSHA Hazards: Harmful by ingestion., Corrosive to skin, Moderate eye irritant

WHMIS Classification E: Corrosive Material
D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302

(40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Phosphoric acid (7664-38-2)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Hydrogen fluoride

(7664-39-3) SARA

302: 100 lb TPQ

CERCLA: 100 lb final RQ; 45.4 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Phosphoric acid	7664-38-2	Yes	Yes	Yes	Yes	Yes	Yes
2-Butoxyethanol	111-76-2	Yes	Yes	Yes	Yes	Yes	Yes
Hydrogen fluoride	7664-39-3	Yes	Yes	Yes	Yes	Yes	Yes

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Component Analysis - WHMIS IDL

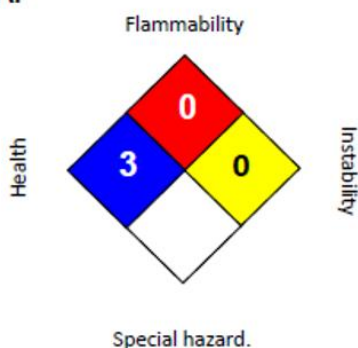
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Phosphoric acid	7664-38-2	1 %
2-Butoxyethanol	111-76-2	1 %
Diethylene glycol monobutyl ether	112-34-5	1 %

Additional Regulatory Information

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Phosphoric acid	7664-38-2	Yes	DSL	EINECS
2-Butoxyethanol	111-76-2	Yes	DSL	EINECS
Diethylene glycol monobutyl ether	112-34-5	Yes	DSL	EINECS
Hydrogen fluoride	7664-39-3	Yes	DSL	EINECS

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

*** Section 16 - Other Information ***

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial and local laws.

Key/Legend

NA - Not Applicable
 ND - Not Determined
 ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 TLV - Threshold Limit Value
 PEL - Permissible Exposure Limit
 TWA - Time Weighted Average
 STEL - Short Term Exposure Limit
 NTP - National Toxicology Program
 IARC - International Agency for Research on Cancer