

AB Aluminum Brightener

Acid-type aluminum brightening and industrial surface cleaning compound

Controlled safety source: SDS UC-004, revision January 20, 2026. This Technical Data Sheet does not replace the current Safety Data Sheet.

PRODUCT OVERVIEW

AB Aluminum Brightener is an active acid-type cleaner intended for industrial and manufacturing use on compatible aluminum and other approved exterior surfaces. The approved operating procedure uses a 1:10 dilution, one part AB to ten parts clean water. Surface compatibility must be confirmed before broad application.

Primary use	Brightening and removal of stains, oil, exhaust residue, and industrial soil from compatible surfaces	Physical state	Liquid
Appearance	Clear liquid	Odor	Acidic
pH	1	Specific gravity	1.065
Boiling range	115°C / 240°F	Flash point	Non-flammable
Water solubility	Completely soluble	Signal word	Danger

KEY SAFETY AND OPERATING POINTS

- Causes severe skin burns and eye damage. Prevent direct contact and use required chemical-resistant PPE.
- Avoid breathing vapor, spray, or mist. Provide adequate ventilation, especially in enclosed areas.
- Always add AB to measured water when preparing the 1:10 dilution. Never add water into concentrated AB.
- Do not mix with bleach, ammonia, oxidizing agents, organic or combustible materials, or unknown chemicals.
- Do not allow the working solution to dry on the surface. Rinse completely with clean water.
- Toxic to aquatic life with long lasting effects. Prevent uncontrolled release to drains, soil, surface water, and groundwater-sensitive areas.

SHIPPING, PACKAGE AND LOGISTICS

Variant	Physical Package	SKU	Gross Weight	Dimensions	NMFC	Freight Class
1 Gallon	1 Gallon Jug	AB001	8.8 lb	6 x 6 x 12 in	44155	85
5 Gallon	5 Gallon Bucket	AB005	46.5 lb	10.25 x 10.25 x 14.75 in	44155	85
55 Gallon	55 Gallon Drum	AB055	504 lb	23.5 x 23.5 x 35 in	44155	85
250 Gallon	250 Gallon Tote	AB250	2,350 lb	40 x 47 x 46 in	44155	85

DOT: UN1830, Sulfuric Acid, Hazard Class 8, Packing Group II. Class 8 CORROSIVE labeling and applicable UN identification and proper shipping name marking are required for fully regulated shipments.

NFPA 704



Health	2	Moderate hazard
Flammability	0	Will not burn under typical fire conditions
Instability	2	Moderate instability hazard
Special	—	Not determined in current SDS

GHS HAZARD COMMUNICATION

	GHS05 Corrosion
	Skin corrosion/irritation Category 1
	Serious eye damage/eye irritation Category 1
	Signal word: Danger
	Hazard statement: Causes severe skin burns and eye damage.

REQUIRED PPE AND WORK CONTROLS

- Chemical splash goggles and a face shield for splash-producing work.
- Acid-resistant gloves selected for sulfuric-acid service.
- Long sleeves, long pants, and chemical-resistant clothing or apron.
- Chemical-resistant boots when splash, runoff, or pooling is possible.
- Respiratory protection when ventilation is inadequate or required by the site respiratory-protection program.
- Eyewash and emergency shower or emergency water immediately available in the work area.

REQUIRED EQUIPMENT AND MATERIALS

- AB Aluminum Brightener in the original labeled container and in the required quantity.
- Clean water for dilution and final rinsing.
- Acid-compatible mixing container and measuring equipment.
- Brush, spray equipment, steam foamer, floor scrubber, pressure washer, sponge, or hand-wipe materials as appropriate.
- Portable containment berms, drain covers, recovery mats, and wet/dry vacuum or pump-recovery equipment when required.
- Sealed compatible recovery drums or IBC totes when collection is required.
- pH test strips or calibrated pH meter for rinsate verification.

PRE-JOB PLANNING AND INSPECTION

1. Review the current AB SDS, this TDS, site rules, and the job safety analysis with all personnel.
2. Confirm the target surface is compatible with acid-type cleaners. Test a small inconspicuous area before broad application.
3. Identify painted surfaces, coatings, glass, electrical equipment, hot surfaces, combustible materials, and other areas requiring protection.
4. Inspect the surface for damage, loose coatings, corrosion, and areas vulnerable to chemical or pressure damage.
5. Identify runoff paths, drains, soil, waterways, and sensitive receptors. Install required containment before application.
6. Confirm clean water is available for the approved 1:10 dilution and complete rinsing.
7. Photograph representative soil and surface condition before cleaning.
8. Record equipment identification, date, ambient conditions, estimated product quantity, and selected application method.

DILUTION AND APPLICATION PROCEDURE

STANDARD DILUTION: 1:10. Mix one part AB Aluminum Brightener with ten parts clean water. This produces eleven total parts of working solution. Always add AB slowly to the measured water. Never add water into concentrated AB.

9. Prepare only the quantity needed for the job in an acid-compatible container.
10. Apply by brush, spray, steam foamer, floor scrubber, pressure washer, sponge, or hand wipe.
11. Apply from bottom to avoid streaking.
12. On vertical surfaces, establish uniform coverage while controlling overspray and runoff.
13. Allow the working solution to soak while keeping the surface wet. Do not allow the product to dry on the surface.
14. Reapply as necessary to maintain wet contact and address persistent deposits.
15. For pressure-washer or foamer use, remove the chemical sprayer at the quick connect before final rinsing.
16. Prevent contact with personnel, incompatible surfaces, vehicles, electrical components, organic materials, and combustible materials.

CLEAN-WATER RINSE PROCEDURE

A complete clean-water rinse is recommended after every application. Use the lowest effective pressure and sufficient standoff distance to protect the surface.

17. Begin rinsing before the working solution dries.
18. Rinse from top to bottom so loosened contamination moves toward containment and cleaned areas are not re-contaminated.
19. Hose off all dirt, foam, and released residue.
20. Continue rinsing until visible foam and contamination are removed and the rinse water runs clear.
21. Inspect seams, corners, recesses, and lower edges for retained chemical or soil. Repeat localized application and rinsing when necessary.
22. Recover or direct rinsate into the site-approved containment, process drain, or treatment system.
23. Flush application equipment, hoses, injectors, pumps, brushes, and accessories with clean water after use.

RINSE-WATER MANAGEMENT AND ENVIRONMENTAL HANDLING

Rinsate disposition depends on the site, the deposits removed, measured pH, and applicable permits. AB is strongly acidic and the current SDS states that it is toxic to aquatic life with long lasting effects. Do not release untreated product or uncontrolled rinsate to storm drainage, surface water, or environmentally sensitive areas.

Site category	Minimum control	Disposition
High-sensitivity area	Use berms, drain covers, and vacuum recovery sized for anticipated volume.	Collect in sealed compatible containers and route to approved treatment or disposal.
Standard industrial site	Capture in an approved sump, process drain, or recovery system.	Confirm site authorization and maintain handling or disposal records.
Remote or non-sensitive area	Control runoff, migration, pooling, and erosion.	Use land application or sanitary discharge only when specifically permitted and within applicable limits.

Rinse-water verification: Collect a representative rinsate sample, measure and record pH, check for visible oil sheen, solids, unusual color, and odor, then document estimated volume, containment method, disposal route, and responsible person.

POST-CLEANING INSPECTION AND PERFORMANCE VERIFICATION

24. Inspect the surface for remaining soil, streaking, discoloration, etching, coating damage, or trapped residue.
25. Confirm all foam and working solution have been removed.
26. Photograph representative cleaned areas.
27. Obtain customer or site representative inspection and approval.
28. Record any recommendation for additional cleaning, compatibility review, mechanical repair, or follow-up inspection.

FIRST AID AND EMERGENCY RESPONSE

Exposure	Required response from current SDS
Eyes	Immediately flush with plenty of water. Remove contact lenses after initial flushing when easy to do and continue flushing for at least 15 minutes. Immediately call a poison center or physician.
Skin	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediately call a poison center or physician.
Inhalation	Remove to fresh air. Call a physician immediately.
Ingestion	Do not induce vomiting. Drink plenty of water. Immediately call a poison center or physician.
Spill	Prevent further leakage if safe. Protect drains. Contain and absorb with inert material. Transfer to properly labeled compatible containers. Any neutralization must be performed by trained personnel under an approved acid-neutralization procedure.
Fire	Use water fog, dry chemical powder, or carbon dioxide. Do not use a water jet. Firefighters require full protective equipment and self-contained breathing apparatus.

Emergency contact: INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International.

STORAGE, REACTIVITY AND RESTRICTIONS

- Keep container tightly closed in a cool, dry, well-ventilated place. Store locked up and out of reach of children.
- Protect from freezing. If product freezes, allow it to thaw completely prior to use.
- Store away from incompatible materials.
- Do not mix with bleach, ammonia, oxidizing agents, organic or combustible materials, or unknown chemicals.
- Always add acid product to water, not the reverse.
- Use only with the current SDS, required PPE, and applicable site procedures.
- Stop work immediately if unexpected discoloration, etching, coating damage, excessive reaction, or equipment damage is observed.

TRANSPORTATION AND REGULATORY PROFILE

Mode / Field	Controlled value
DOT	UN1830, Sulfuric Acid, Hazard Class 8, Packing Group II
IATA	UN1830, Sulfuric Acid, Hazard Class 8, Packing Group II
IMDG	UN1830, Sulfuric Acid, Hazard Class 8, Packing Group II
CERCLA RQ	Sulfuric acid RQ 5,000 lb. No listed package reaches the 5,000 lb constituent RQ because total package weight is below the RQ.
Emergency contact	INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International

FIELD DOCUMENTATION CHECKLIST

Customer/site and equipment identification	Date and personnel
Pre-job photographs	Surface compatibility test
Product lot or container identification	Chemical amount used
Confirmed 1:10 dilution	Application method
Soak/contact observations	Reapplication performed
Containment method	Rinse-water pH
Estimated rinse-water volume	Disposal or treatment method
Post-cleaning photographs	Customer inspection/approval

DOCUMENT CONTROL

Product	AB Aluminum Brightener
Product code	AB
Safety source	SDS_AB.pdf SDS UC-004 revision January 20, 2026 Version 1
Operational source	AB_TDS.PDF Revision 1, August 4, 2026, applied only where not superseded by the current SDS
Shipping source	2026 Ultimate Chemicals Product Shipping Specs Matrix.xlsx
NFPA asset	NFPA_2-0-2.svg
GHS asset	GHS05_Corrosion.png
Program/footer artwork	Approved Ultimate Chemicals glow-in-the-dark logo. AB is not on the Zero Hour badge list.

QUICK ACCESS

Scan the QR code or select the printed URL. Each printed URL is embedded as a clickable PDF hyperlink.

PRODUCT PAGE  https://ultimatechemicals.com/products/ab	SDS  https://ultimatechemicals.com/sds/ab	TDS  https://ultimatechemicals.com/tds/ab_tds.pdf
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