

Material Safety Data Sheet (MSDS)



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Document No:
AEC1004

SAFETY DATA SHEET (Prepared according to Regulation (EC) No 1907/2006 (REACH) as amended by Commission Regulation (EU) 2020/878)

SECTION 1- Identification

1.1 Product identifier Trade name: **BrightWash** Product code: **Dilute** 1.2 Relevant identified uses of the substance or mixture and uses advised against Acidic cleaner for industrial surface treatment. Uses advised against: Any use not specified above. 1.3 Details of the supplier of the safety data sheet Company: AbanEnergy

Telephone: +9821 92002736 ,E- mail (competent person): O.anamzadeh@aban.energy

1.4 Emergency telephone number: <+989109540595>

SECTION 2 - Hazard Identification

2.1 Classification of the substance or mixture (CLP/GHS) Skin Corr. 1B (H314) Acute Tox. 4 (Oral) (H302) Acute Tox. 4 (Dermal) (H312) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

2.2 Label elements Signal word: DANGER Pictograms: GHS05 (corrosion)

GHS07 (exclamation) GHS09 (environment) Hazard statements: H314 Causes severe skin burns and eye damage. H302 Harmful if swallowed. H312 Harmful in contact with skin.

H411 Toxic to aquatic life with long lasting effects. Precautionary statements (selection):

P260 Do not breathe mist/vapours/spray. P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. 2.3 Other hazards Contact with glass may etch the surface. No PBT/vPvB substances present.

Usage Instructions: apply solution evenly across the surface which is wet. CleanBase® already using a medium pressure washer, making sure the surface is coated with solution. Allow to sit and

with water to remove dirt. After thoroughly clean the surface. Brightwash acidic solution. Wash the tank, hoses and equipment thoroughly with water.

Compatibility: Safe for use on most coil materials, including aluminum, copper, and galvanized steel, when used as directed

Safety Note: • Wear PVC gloves and a face and eye shield when applying the product • If the product touched the skin, rinse only with water for 3 to 5 minutes. • If the product splashed in the eye, rinse with water and then seek professional help • Do not leave the product on the coil or any metallic surface; make sure to rinse it off completely. • If swallowed, the product could lead to fatal injury. Seek medical help immediately.

SECTION 3 - Composition / Information on Ingredients

This product is a mixture. Exact concentrations and identities are withheld as trade secret; ranges provided meet regulatory requirements.



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SECTION 4 - First Aid Measures

Immediately remove contaminated clothing. Show this SDS to medical personnel.
IF INHALED: Move person to fresh air. Keep warm and at rest. Call a poison centre/doctor.
IF ON SKIN: Rinse with plenty of water for at least 15 min. Apply 2.5 % calcium gluconate gel to affected area. Get immediate medical attention. IF IN EYES: Rinse cautiously with water for at least 15 min holding eyelids apart. Remove contact lenses. Seek immediate medical attention. IF SWALLOWED: Rinse mouth. Give small amount of water if conscious. Do NOT induce vomiting. Immediately call a poison centre/doctor.

SECTION 5 - Firefighting Measures

Product is non-flammable. Suitable extinguishing media: water spray, foam, dry chemical. Do not use water jet. Wear full protective gear including SCBA. Thermal decomposition may release HF and phosphorus oxides.

SECTION 6 - Accidental Release Measures

Evacuate area. Wear full chemical PPE. Contain spill with inert absorbent (vermiculite). Neutralise cautiously with lime or calcium carbonate slurry. Collect in labelled containers for disposal. Prevent release to drains and surface water.

SECTION 7 - Handling and Storage

Use only in well-ventilated area. Keep containers tightly closed. Avoid contact with skin, eyes, and clothing. Storage: Store in corrosion-resistant plastic (HDPE). Keep away from alkalis, glass, and metals. Store locked up at 5 – 30 °C.

SECTION 8 - Exposure Controls / Personal Protection

8.1 Control parameters Occupational Exposure Limits: • Hydrogen Halide: EU IOELV TWA 0.5 ppm (0.6 mg/m³), STEL 2 ppm (2.5 mg/m³) • Inorganic acid: EU IOELV TWA 1 mg/m³, STEL 2 mg/m³ 8.2 Exposure controls Engineering: Local exhaust ventilation; emergency eyewash & safety shower. PPE: Acid-resistant gloves (nitrile/neoprene), chemical-resistant suit, face shield & goggles, respiratory protection (EN 140 half mask with type B filter) if aerosol/mist.



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SECTION 9 - Physical and Chemical Properties

Appearance: Clear, orange colored liquid

Odour: Pungent, acidic

pH (20 °C): < 1

Melting point/freezing point: <0 °C Boiling point: >100 °C

Flash point: Not applicable

Relative density (20 °C): 1.02 g/cm³

Solubility: Completely miscible with water

VOC content: 0 %

SECTION 10 - Stability and Reactivity

Stable under recommended conditions. Reacts with bases, glass, silicates, and metals releasing heat and gases. Avoid contact with incompatible materials. Hazardous decomposition: Hydrogen Halide, Halide compounds, phosphorous oxides.

SECTION 11 - Toxicological Information

Acute toxicity: Mixture ATE Oral \approx 440 mg/kg (Cat 4); Dermal \approx 1000 mg/kg (Cat 4). Skin corrosion/irritation: Causes severe skin burns (Cat 1B). Serious eye damage: Causes serious eye damage. Respiratory/skin sensitisation: No data. STOT SE: May cause respiratory irritation. Chronic effects: Fluorosis with prolonged exposure.

SECTION 12 - Ecological Information

Toxic to aquatic life with long lasting effects (H411). Surfactant is biodegradable (> 60 %/28 d). Release to environment must be avoided.

SECTION 13 - Disposal Considerations



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Dispose according to local regulations. Neutralise carefully before disposal. EWC code: 07 01 01* (aqueous washing liquids containing dangerous substances).

SECTION 14 - Transport Information

UN Number: 1790

UN Proper Shipping Name: acid, solution

Transport hazard class(es): 8 (Corrosive)

Packing Group: III

Environmental hazards: Not applicable

Special precautions for user:

- Product contains less than 20% acid and is classified under Packing Group III.
- Ensure proper packaging in corrosion-resistant containers (e.g., HDPE, PTFE).
- Labels must include corrosive pictogram (GHS05) and appropriate hazard statements.
- Transport must comply with ADR (road), IMDG (sea), or IATA (air) regulations depending on mode.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for packaged goods.

✓ **Note:** This product can be shipped in quantities exceeding 1 L per inner container, provided that Packing Group III packaging requirements are met and proper labeling and documentation are applied

SECTION 15 - Regulatory Information

Safety, health and environmental regulations: Contains a surfactant, subject to REACH Annex XVII restrictions (entry 46). **Authorisations:** none. **Seveso:** not applicable.

SECTION 16 - Other Information

Abbreviations: CLP – Classification, Labelling & Packaging; REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals; PBT – Persistent, Bioaccumulative, Toxic.

Revision date: 31 Jul 2025 **Version:** 1.0 The information is based on current knowledge and is intended to describe the product for safety requirements only. It does not represent a guarantee of product properties.