

## Description

The 406B *Super Wash™ Electronics Cleaner* is a very fast drying and zero residue cleaner degreaser for PC boards. This hydrocarbon-based cleaner is perfect for quick PC boards cleaning. When used as a secondary rinse, it accelerates the drying time of boards treated with slower drying cleaners. Great for dissolving many types of flux. Cleans and degreases printed circuit boards, machinery, electrical and electronic devices.

## Features and Benefits

- **Suitable for Use in Food Facilities as a Non-Food Chemical**—Canadian and NFS recognition letters available on request
- **Safe on many plastics**
- **Zero residue**
- **Fast evaporation rate**
- **Dissolves oils and residues**
- **RoHS compliant**

### **ATTENTION!**

**Do NOT use on live circuits.**

For use on equipment that will not tolerate aqueous cleaning solutions. Not for use in direct contact with food.

## Usage Parameters

| <i>Properties</i> | <i>Value</i> |
|-------------------|--------------|
| Shelf Life        | 5 y          |

## Temperature Ranges

| <i>Properties</i>                        | <i>Value</i>                   |
|--|--------------------------------|
| Storage Temperature Limits <sup>a)</sup> | -20 to 40 °C<br>[-4 to 104 °F] |

a) Storage below zero is not necessary. Cool, dry, and well ventilated area recommended.

## Properties

| <i>Physical Properties</i>     | <i>Method</i>                         | <i>Value</i>                   |
|--------------------------------|---------------------------------------|--------------------------------|
| High Purity                    | —<br><br>Brookfield SP1<br>Closed Cup | No residue                     |
| Color                          |                                       | Clear                          |
| Odor                           |                                       | Mild hydrocarbon               |
| Density @25°C [77 °F]          |                                       | 0.66 g/mL                      |
| Viscosity @25°C [77 °F]        |                                       | 0.3 cP [0.0003 Pa·s]           |
| Flash Point                    |                                       | -29 °C [-20 °F]                |
| Boiling Point                  |                                       | 52 °C [126 °F]                 |
| Vapor Pressure @25°C [77 °F]   |                                       | 33 kPa [250 mmHg]              |
| Relative Evaporation Rate      |                                       | 0.8 (Ether = 1); 9.4 (ButAc=1) |
| Volatile Organic Content (VOC) |                                       | 100%                           |

| <i>Solvation Parameters</i>                | <i>Value</i>         |                                       |
|--|----------------------|---------------------------------------|
| Solubility in Water                        | Insoluble            |                                       |
| KB (Kauri Butanol) Value                   | 30                   |                                       |
| Hansen Solubility Parameters <sup>a)</sup> | (MPa) <sup>1/2</sup> | [cal/cm <sup>3</sup> ] <sup>1/2</sup> |
| Total                                      | 14.9                 | 7.28                                  |
| <i>Non-Polar</i>                           | 14.9                 | 7.28                                  |
| <i>Polar</i>                               | 0.0                  | 0.0                                   |
| <i>Hydrogen Bonding</i>                    | 0.0                  | 0.0                                   |

a) Hansen parameters calculate using component literature values and volume fraction composition.

## Compatibility

**Substrate Compatibility:** Consult 406B partial compatibility chart table for substrate compatibility. It is always recommended to perform a compatibility test on a non-critical test area prior to large scale applications. Perform this test even if the chart predicts high compatibility since modern plastic parts may incorporated hidden incompatible materials in the form of plastic blends or as protective and decorative coatings.

### Compatibility Chart

| <i>Plastic type</i>                   | <i>Resistance</i> |
|---------------------------------------|-------------------|
| Epoxy                                 | Very Good         |
| ABS (acrylonitrile butadiene styrene) | Poor              |
| PMMA (Acrylic)                        | Good              |
| PVC (Polyvinyl chloride)              | Good              |
| HD-PE (high density polyethylene)     | Good              |
| LD-PE (low density polyethylene)      | Partial           |
| PP (polypropylene)                    | Good              |
| PS (polystyrene)                      | Partial           |
| PC (Polycarbonate)                    | Poor              |

#### **ATTENTION!**

Use with care on thin plastics or near parts that are chemically sensitive.

**Solvent Miscibility:** The 406B is generally miscible organic solvent, but it is immiscible with water.

## Health, Safety, and Environmental Awareness

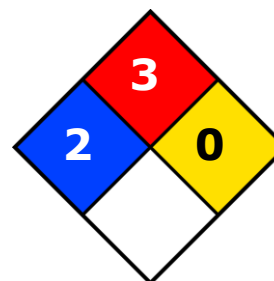
Please see the 406B **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

**Health and Safety:** This liquid is highly flammable and should be kept away from flames and other ignition sources. Avoid breathing in fumes or direct contact with the material.

### HMIS® RATING

|                             |     |
|-----------------------------|-----|
| <b>HEALTH:</b>              | * 2 |
| <b>FLAMMABILITY:</b>        | 3   |
| <b>PHYSICAL HAZARD:</b>     | 0   |
| <b>PERSONAL PROTECTION:</b> |     |

### NFPA® 704 CODES



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**Environmental Impact:** It is RoHS compliant.

## Application Instructions

### To clean residues in aerosol format

1. Spray dirty area.
2. Ensure that wash runs off the circuit board along the shortest unencumbered path to prevent redeposit of solvated residues

## Packaging and Supporting Products

| <i>Cat. No.</i>  | <i>Packaging</i> | <i>Net Volume</i> |            | <i>Net Weight</i> |         | <i>Packaging Weight</i> |                       |
|------------------|------------------|-------------------|------------|-------------------|---------|-------------------------|-----------------------|
| <b>406B-425G</b> | Aerosol          | 590 mL            | 20.0 fl oz | 425 g             | 14.9 oz | 5.72 kg <sup>a)</sup>   | 12.6 lb <sup>a)</sup> |

a) Case pack of ten

### Supporting Products

- *Hog Hair Cleaning Brush:* Cat. No. 852
- *Large Hog Hair Cleaning Brush:* Cat. No. 853



ISO 9001 Registered Quality System.  
Burlington, Ontario, Canada QMI File # 004008

# Super Wash Electronic Cleaner 406B Technical Data Sheet

406B-Aerosol

## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

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## Disclaimer

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