



BRITEGUARD™

AF-4

- *Reduces ventilation requirements.*
- *Meets NESHAP surface tension requirement.*
- *Promotes safer working conditions.*
- *Reduces waste treatment loading.*
- *Achieves EPA regulations.*
- *Permanent type control.*
- *Reduces heating costs.*
- *Meets requirements of Clean Air Title V.*

PERMANENT FUME SUPPRESSANT

BRITEGUARD AF-4 is a highly concentrated liquid fume suppressant containing wetting agents that is designed to be used in decorative chrome plating baths, chromic acid anodize, sulfuric anodize and hard chrome plating baths. It creates and maintains a dense foam blanket that prevents chromic acid mist and noxious fumes from entering the atmosphere. **AF-4** can produce a dense, thick foam blanket when desired.

BRITEGUARD AF-4 lowers surface tension of the chromic acid bath, exceeding NESHAP requirements, as well as effectively reducing dragout. Thus, the US and impending Canadian regulatory surface tension requirement of ais easily achieved. This also reduces chromic acid loss and contamination of the following rinses. Waste disposal problems are reduced by keeping the solution in the process tank.

BRITEGUARD AF-4 is stable in the chrome bath, eliminating the need for large additions with morning start-up. It can be utilized on any type of decorative chrome bath, without any detrimental effect on the bath or the work itself.

BRITEGUARD AF-4 is easy and economical to use. In addition, it promotes safer working conditions for employees.

OPERATING DATA

BRITEGUARD AF-4

0.25% by volume.

Initial additions of **BRITEGUARD AF-4** will reduce surface tension of a typical chrome bath below 45 dynes/cm. The amount of **AF-4** required is directly proportional to the chromic acid concentration. Loss of **BRITEGUARD AF-4** is only achieved by dragout.

BRITEGUARD AF-4 is very effective over a wide range of concentrations in an operating solution. No analytical control is necessary, however MACT standard requires surface tension measurements. This type of equipment and analytical procedure is available from **A BRITE**. The need for maintenance additions can be determined by observing the foam blanket on the solution or by surface tension measurements. Height and consistency of the foam blanket varies with surface area of the tank and electrical current distribution. **BRITEGUARD AF-4** can be added as needed to maintain optimum results.

Contact your **A BRITE** representative or the **A BRITE TECHNICAL SERVICE CENTER** for specific recommendations.

STORAGE/HANDLING

Keep from freezing. If product does freeze, a partial separation of components may occur. Allow container to stand for at least 8 hours at room temperature and shake the container to bring the materials back into solution.

AF-4 is a near neutral liquid that is safe to handle. However, the solutions in which it is used contain chromic acid. Avoid contact with skin and eyes. Wear proper protective clothing and face shield. In the event of contact, flush with water. **Refer to the Material Safety Data Sheet for more complete information.**

WASTE TREATMENT

BRITEGUARD AF-4 itself does not require treatment, nor does it complicate the treatment of any effluent. However, chrome rinse waters and spent solutions and other normal effluents generally require treatment prior to discharge. **A BRITE** has a staff of trained professionals to assist in the proper disposal of this or any metal finishing material.

MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheets (M.S.D.S.) are readily available on this product. *It is strongly recommended that all personnel thoroughly read and understand the information contained in both the Technical Data Sheet and the Material Safety Data Sheet before using this product.*

WARRANTY

The information presented here, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the performance of any products, since the manner of use is beyond our control. No suggestion for product use nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and we assume no responsibility or liability for operations which do infringe any such patents. The above includes confidential and proprietary information of **A BRITE** and is furnished to you for your use solely on products or processes supplied to you by us.