BONDERITE

Technical Data Sheet

BONDERITE C-MC 31110

January 2019

PRODUCT DESCRIPTION

BONDERITE C-MC 31110 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Liquid, Acidic Cleaner
Application	Maintenance Cleaner

Application Areas:
Exterior cleaning of painted railroad vehicles like railroad carriages, freight carriages, tank wagons, locomotives, trams.

Cleaning of insulators for cables.

Removal of strong incrustations out of soap residues and rust spots in washrooms.

Composition:

- Inorganic acids
- Corrosion protecting agent
- Anionic and non-ionic surfactants

TECHNICAL DATA

Appearance:	yellow , brown liquid
pH-value (10 g/L):	1.3 ± 0.3
Density, g/cm³: (DIN 51757)	1.05 ± 0.02
Viscosity, sec: (Ford-beaker, 4-mm nozzle, room temperature)	13
Solubility:	mixable with water in all ratios
Cold stability, °C:	down to -5
Thermal stability, °C:	up to 40

DIRECTIONS FOR USE

Preliminary Statement:
Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Application:

1. BONDERITE C-MC 31110 solutions are applied with a spray equipment, a brush or in an automatic carwash. The areas to be cleaned are treated with a brush. Rinse off with water, until the water running down is free of foam.
2. Disassembled insulators are dipped in a BONDERITE C-MC 31110 solution. After an appropriate application time the parts are rinsed with clear water. Strong treatment with brushes supports the cleaning process.
3. The areas to be cleaned are treated with diluted BONDERITE C-MC 31110 solutions. Subsequently rinse with water.

Bath Control:
Concentration check:

Titration against:	0.1 N NaOH
Solution volume:	5 mL
Indicator:	methylorange
Titration factor:	TF=4.7 g/L per mL 0.1 N NaOH
Concentration:	TF*mL consumption 0.1 N NaOH

Brix: The read Brix value is multiplied by the Brix factor = 3.03. The concentration is in Percentage.

Operating Data:
Application concentration:

For railroad vehicles: as concentrate or diluted with water 1:1 to 1:3 , in automatic carwashes 1:1 to 1:12 (according to the extent of soiling).
For insulators: diluted with water 1:1 to 1:2.
For the removal of incrustations: diluted with water 1:6 to 1:8 .

Application temperature:

Room temperature.

Application Time:

Depends on the extent of soiling of the areas to be cleaned and on the speed of the automatic carwash.

Waste Water Treatment:
Before the disposal in the effluent used BONDERITE C-MC 31110 solutions must be neutralized! For the neutralization of 1 kg BONDERITE C-MC 31110 1.9 L of 10 % NaOH are needed.

Classification:
Please refer to the corresponding **Material Safety Data Sheets** for details on:
Hazards identification
Transport information
Regulatory information

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Storage:

Recommended Storage Temperature	-5 to 40°C
Shelf-life (in unopened original packaging)	36 months

ADDITIONAL INFORMATION

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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