A Division of **ICL Performance Products**
1326 Summer Street
Hammond, IN 46320
USA

www.halox.com

RESPONSIBLE CARE®
OUR COMMITMENT TO SUSTAINABILITY

TECHNICAL DATA

HALOX® 650

Organic Corrosion Inhibitor

Chemical Description
Organic Di-Acid

Product Description
HALOX® 650 is an organic corrosion inhibitor primarily designed for coatings and primers on metal surfaces. HALOX® 650 is specifically designed for use in solvent-borne or powder coating applications to provide long-term corrosion protection.

HALOX® 650 may be used in applications such as: coil coatings resins such as thermoplastic acrylics or epoxies, powder coatings systems such as polyester/TGIC, acid catalyzed thermosetting systems such as melamine or urea formaldehyde, and wash (etch) primers based on PVB.

Application*
Recommended loading levels range form 1-3% based on total formulation solids. The amount of HALOX® 650 required for optimum performance should be determined in trials over the recommended concentration range.

Solubility
(g active substance/100 g solution) at 20°C

Diethylene glycol butyl ether	12
Dipropylene glycol methyl ether	26
Isopropanol	8
1-Methoxy propylacetate-2	1
Methyl isobutylketone (MIBK)	2
Propylene glycol methyl ether (PM)	20
Xylene	<0.01
Water (pH 7)	<0.01

Typical Properties
These are typical values and do not represent product specifications:

Appearance	Slightly yellow dusting powder
Melting Point	170°C (approximate decomposition)
pH (10% solution by wt)	3.3
Oil Absorption (lbs/100 lbs)	45.2
Density (g/ml)	1.54
Mean Particle Size (microns)	2.8
% Moisture	0.1

Our Manufacturing Systems are ISO 9001 and ISO 14001 Certified

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Incorporation
HALOX® 650 should ideally be incorporated into a pigment grind phase.

If you are removing a heavy metal based anti-corrosive pigment, compensate for its removal with an extender (filler) so that the ratio PVC:CPVC remains constant. However, HALOX® 650 can be used in conjunction with anti-corrosive pigments, preferably based on compounds defined as non-toxic or reportable under applicable regulations. Combination with pigments such as HALOX® 430 and ion exchanged silicas has shown excellent performance in coil coatings on various substrates such as steel, galvanized steel and aluminum. Check compatibility, shelf life (e.g. accelerated at high temperature), cure and pot-life, if applicable. Other formulation variables may also be optimized, for example, dispersants, surfactants, and PVC:CPVC ratio.

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