

ADVAGuard[®]591 Corrosion Inhibitor

Application Lithium molybdate crystals corrosion inhibitor, in lithium bromide solution and lithium chloride.

Appearance White crystals

Product Specifications	Typical	Guaranteed	
Li ₂ MoO ₄ , wt%	97	96	min
Mo, wt%	53.7	53	min
H ₂ O*	0.1	1	max
Alkalinity (as Li ₂ CO ₃), wt%	<0.05	1	max

* Value (as weight percent loss) determined by drying at 500°C for 30 minutes.

Other Data Bulk density 1.6 g/cm³ (100 lb/ft³)

Physical Properties

Molecular weight	173.83
Density , g/cm ³	2.66
Melting point, °C	705
Solubility in water, wt% @ 25°C	44.8
Heat of formation @ 25°C	-363.4 kcal/mole
Heat of reaction @ 25°C	-336.9 kcal/mole
Entropy @ 25°C	30 cal/mole/°C
Heat of fusion @ 25°C	11.4 kcal/mole

Toxicity/Safety Data Odorless, white powder. Exposure to large amounts of molybdenum may irritate the upper respiratory tract and damage the liver, spleen and kidneys. Additional information on toxicity and safety is contained in the Material Safety Data Sheet (MSDS) available for this product.

Air Treatment Construction Energy Fine Chemicals Glass & Ceramics Greases & Lubricants Polymers Pool Water Treatment

MARKETS SERVED	NORTH AMERICA AND HEADQUARTERS FMC Lithium	EUROPE FMC Chemicals	JAPAN FMC Lithium	CHINA FMC Lithium	INDIA FMC India Private Limited	TAIWAN FMC Lithium
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Handling/Storage/Disposal

Avoid contact with eyes, skin or clothing. Use with adequate ventilation. Wear safety glasses or goggles and rubber gloves. Wash thoroughly after handling. Keep container closed.

Dispose of waste according to local and Federal laws and regulations.

Shipping Containers

110 lb (50 kg) of product shipped in 16.5 gallon (62.5L) polyethylene-lined fiber drum.

Shipping Limitations

Shipments of lithium molybdate require no hazardous shipping labels. Shipments by post, parcel, air, water, rail, or truck are acceptable within each carrier's weight limits and packaging requirements.

Contact transportation specialist for details.

Responsible Care initiative dictates that all shipments of lithium chemicals must be transported in an approved vehicle in a responsible manner (i.e., no flat bed trucks).