Nouryon

Product Data Sheet

Dissolvine® M-X PLUS

Dissolvine® M-X PLUS is a high purity, versatile and readily biodegradable chelating agent in solid form. Dissolvine® M-X PLUS has a majority (>50%) bio-based carbon content.

Applications

Household cleaning

- Dissolvine® M-X PLUS effectively replaces phosphorous containing builders in dishwashing detergents.
- It enhances the cleaning power of a cleaner / detergent by sequestering the metal ions like Ca and Mg.
- It prevents the deactivation of surfactants from hard water metal ions.

Industrial & Institutional cleaning

- Dissolvine® M-X PLUS forms stable, water-soluble metal complexes with all potentially harmful metal ions.
- It dissolves existing and prevents new scales from causing problems in water circulation equipment (in e.g. the power, brewing, and sugar industries).
- Because of its low molecular weight this chelate performs very well in short contact cleaning.

Specifications

Checkpoint	Specification	Units	Method
Appearance	White granules		Visual
Assay as MGDA-Na_3	min. 81	%	SMA 916.02
pH of 1% aqueous solution	10.5 – 12.5		SMA 176.18
Color of 40% aqueous solution	max. 250	APHA	SMA 898.06

Main Characteristics

Free flowing granules
Bulk density: 700 – 1000 kg/m3

Sequestering values for **Dissolvine® M-X PLUS** are approximately (theoretical calculated figures):

Metal ion	pH range	mg metal/g Dissolvine® M-X PLUS
Calcium	6 – 14	115
Copper	1 – 11	185
Ferric	0 - 8	160
Magnesium	7 – 11	70
Manganese	4 - 11	160
Zinc	2 - 11	190

Environmental aspects

Readily biodegradable, non-hazardous, Ecolabel compliant
COD: 580 mg/g

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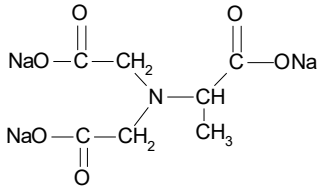
Chemical Name	Methylglycine N,N-diacetic acid, trisodium salt
Chemical formula	$MGDA\text{-}Na_3$
Structure	
Mol. Weight	271.1
CAS Number	164462-16-2
Packing	For information on possible packing types and sizes, please contact your nearest Nouryon representative.
Storage	Store in original packing at a dry place. Opened bags must be closed again properly. It is advised to re-test the material after three years of storage.
Further information	For transport, handling and first aid instructions, please refer to the Safety Data Sheet, which is available on request. For samples, technical service and further information, please contact your nearest Nouryon representative or:
Internet	www.nouryon.com
Addresses	You can find the addresses of our offices at www.nouryon.com/company/locations

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