

MANGANESE SULPHATE MONOHYDRATE

Ref: TS-Manganese Sulphate, Version 003, Date: February 2010

Typical Chemical Analysis

<u>Content</u>			<u>Method</u>	<u>Directive</u>
MnSO ₄ .H ₂ O	98	% min	AAS400	
Total Mn	31	% min	AAS400	
Pb	0.002	% max	AAS400	2005/87/EC
Cd	0.002	% max	AAS400	2005/87/EC
Fe	0.007	% max	AAS400	2005/87/EC
As	0.0005	% max	AAS400	2009/124/EC
PH	5 – 7			
Dioxins	(PCDD/PCDF)		1.0 ng/kg Max	2006/13/EC
	(PCDD/PCDF/PCB)		1.5 ng/kg Max	2006/13/EC

Physical Analysis

Flow	Free Flow; dust free
Appearance	White to pinkish crystalline powder
Bulk Density	1400 kg/m ³
Solubility in water	100%
Particle Size	Mesh 60 0.2% max

Packaging

Coated Woven Polypropylene 25kg / 1 ton bag with inner liner
Wooden pallets meet ISPM 15 regulations
Pallets are stretched wrapped
Special packaging available on request

Labeling

Label includes batch number, net weight, manufacturing & expiry dates
Labels are marked according to EU and UN directives
Neutral label or customer label are available on request

General Information

CAS No. 7785-87-7 (monohydrate)
UN No. 3077
Customs tariff 28330000
Transport IMDG Class 9

Safety and storage conditions

Store under clean, dry conditions
(According to Numinor's MSDS)



European Feed Additives and PreMixtures Quality System