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PRODUCT SPECIFICATION

Product (Specs) # 00201	Version number: V.02	Issued Date: December 06, 2012
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Manganese Sulfate Monohydrate (Powder)

TYPICAL CHEMICAL ANALYSIS

ITEMS	UNIT	GUARANTEE	TYPICAL/ACTUAL	METHODS
Manganese (Mn):	%, min.	31.8	32.0	Titration
*Sulfur (S):	%, min.	18.6	18.7	* Calculation
Lead (Pb):	mg/kg (ppm), max.	20	< 10	AAS
Arsenic (As):	mg/kg (ppm), max.	5	< 4	AFS/Ag(DDTC)-SP
Cadmium (Cd):	mg/kg (ppm), max.	10	< 5	AAS

REMARKS:

- 1) *Sulfur (S) result is to be calculated on the basis of the purity of Manganese Sulfate Monohydrate.
- 2) Mn, S, Pb, As and Cd are analyzed for each batch/lot and shown on each CoA.
- 3) The standards/methods cited are for reference only. In practice, we may choose the standards/methods that are deemed to be more appropriate.

OTHER TYPICAL PROPERTIES

Appearance.....White to slightly pink powder Screen Analysis.....>95% -60 mesh (250µm) sieve

PACKAGING

Standard.....Net 25kg plastic woven bags with inner liner Options.....Net 50lb, 2000lb, 1000kg, 1050kg, 1250kg bags.

POSSIBLE APPLICATIONS

Animal feeds, fertilizers, pesticides, etc.

OTHER INFORMATION

Molecular Formula..... $MnSO_4 \cdot H_2O$ CAS #.....10034-96-5 (monohydrate)

Molecular Weight.....169.01 EINECS #.....232-089-9

DISCLAIMER:

The information or suggestions given here are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. It is users'/buyers' responsibility to determine the suitability for their own particular purpose and be solely responsible for any loss arising from the use of such information or suggestions. KIRNS CHEMICAL LTD. shall be in no way responsible for the proper use of the product.

