



Canadian Agri Products(USA) Corp.

Chemicals to Trade, Experience to Remember

## PRODUCT SPECIFICATION

Product (Specs) # <b>00202</b>	Version number: <b>V.101</b>	Issued Date: December-01-2009
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### Maple Manganese Sulphate Monohydrate 31%Mn (MINI GRANULAR)

#### TYPICAL CHEMICAL ANALYSIS

ITEMS	UNIT	SPECIFICATIONS	METHODS
Manganese (Mn):	%, min.	31	Titration
*Sulfur (S):	%, min.	18	* Calculation
Lead (Pb):	mg/kg, max.	20	AAS
Arsenic (As):	mg/kg, max.	5	AFS/Ag(DDTC)-SP
Cadmium (Cd):	mg/kg, max.	10	AAS
Mercury (Hg) :	mg/kg, max.	0.1	AFS
*Dioxins:	ng WHO-PCDD/F-TEQ/kg, max.	1.0	HRGC/HRMS
*Dioxins + Dioxin-like PCBs:	ng WHO-PCDD/F-PCB-TEQ/kg, max.	1.5	HRGC/HRMS

#### REMARKS:

- 1) \*Sulfur (S) result is to be calculated on the basis of the purity of Manganese Sulphate Monohydrate.
- 2) \*The production of manganese sulphate is unlikely to generate Dioxins and Dioxin-like PCBs. Non-periodically, we get it analyzed for Dioxins and Dioxin-like PCBs. If the customer requires such analysis for each order/lot, the certificates will be provided by us with analysis costs to be borne by the customer.
- 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 granule      Particle Size.....>90% (typical >95%) -20 mesh +60mesh  
(-0.85mm +0.25mm)

#### 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<sub>4</sub> · H<sub>2</sub>O      CAS #..... 10034-96-5 (monohydrate)  
Molecular Weight.....169.01      ENECS #..... 232-089-9

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