

Run Date: 07/10/2007  
I/M Date: 07/10/2007

Chem One Ltd  
8017 Pinemont Drive , #100  
Houston, Texas 77040-6519

Page: 1  
Time: 2:10:48PM

ITEM: ZS1MGRZL50L40 Zinc Sulfate Mono - 35.5% Gran  
REF: PDS PRODUCT DATA SHEET  
MFG BATCH OR LOT #:

Certificate Date:  
Receipt Date: 06/22/2007

SYNONYMS: Zinc Sulfate Hydrate, White Copperas	CHEMICAL FORMULA: ZnSO4.H2O
APPEARANCE: Beige, Granular - Maximo 362	CAS NUMBER: 7446-19-7
COUNTRY OF ORIGIN: Mexico	MOLECULAR WEIGHT: 179.40
	PACKAGING: 50 lb bag

THE FOLLOWING VALUES HAVE BEEN PROVIDED BY THE MANUFACTURER OF THIS PRODUCT. CALL CUSTOMER SERVICE IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFO. 713-896-9966 M-F 8AM - 5PM CST.

	Specifications		Typical
Zinc Chloride	35.5%	min	35.6-36.0%
Cadmium	1.0%	max	0.2-0.7%
Iron	0.01%	max	0.001-0.007%
35.5% Zn= 97.4% ZnSO4.H2O	0.5%	max	0.3-0.5%
Other Data Provided			
Sulfur	17%	min	
Insolubles	0.1%	max	
Lead	0.01%	max	
Copper	0.01%	max	
Calcium	0.03%	typ	

Particle size for granular: -6 +18 mesh, pH 5.50, Specific Gravity 3.540, Bulk Density 93-98 lb/cu ft

Typical ranges in heavy metals:

MOLYBDENUM (Mo)..... 90 - 130 PPM  
LEAD (Pb) ..... 6 - 30 PPM  
NICKEL (Ni) ..... 1.3- 5.0 PPM  
COBALT (Co) ..... 0.2- 3.0 PPM  
COPPER (Cu) ..... 0.4- 2.0 PPM  
MERCURY (Hg)..... 0.4- 1.6 PPM  
SELENIUM (Se)..... 0.8- 1.1 PPM  
ARSENIC (As)..... 0.2- 1.9 PPM

\*\*\*Not for Pesticidal or Medicinal Use\*\*\*

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\*\*\* PLEASE READ MATERIAL SAFETY DATA SHEET PRIOR TO HANDLING THIS PRODUCT. \*\*\*  
\*\*\* FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL \*\*\*  
\*\*\* CHEMTREC, DAY , NIGHT (800) 424-9300 or (703) 527-3887 \*\*\*

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DATE CREATED: 03/09/2004

REVISION DATE: 07/10/2007

Run Date: 07/10/2007  
I/M Date: 07/10/2007

Chem One Ltd  
8017 Pinemont Drive , #100  
Houston, Texas 77040-6519

Page: 1  
Time: 2:07:13PM

ITEM: ZS1MPOZL50L40 Zinc Sulfate Mono - 35.5% Powd  
REF: PDS PRODUCT DATA SHEET  
MFG BATCH OR LOT #:

Certificate Date:  
Receipt Date: 06/26/2007

SYNONYMS: Zinc Sulfate Hydrate, White Copperas	CHEMICAL FORMULA: ZnSO4.H2O
APPEARANCE: Beige Powder - Maximo 360	CAS NUMBER: 7446-19-7
COUNTRY OF ORIGIN: Mexico	MOLECULAR WEIGHT: 179.40
	PACKAGING: 50 lb bag

THE FOLLOWING VALUES HAVE BEEN PROVIDED BY THE MANUFACTURER OF THIS PRODUCT. CALL CUSTOMER SERVICE IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFO. 713-896-9966 M-F 8AM - 5PM CST.

	Specifications		Typical
Zinc Chloride	35.5%	min	35.6-36.0%
Cadmium	1.0%	max	0.2-0.7%
Iron	0.01%	max	0.001-0.007%
35.5% Zn= 97.4% ZnSO4.H2O	0.5%	max	0.3-0.5%
Other Data Provided			
Sulfur	17%	min	
Insolubles	0.1%	max	
Lead	0.01%	max	
Copper	0.01%	max	
Calcium	0.03%	typ	

Particle size for powder: 99.5% thru #100, pH 5.50, Specific Gravity 3.540, Bulk Density 60-65 lb/cu ft

Typical ranges in heavy metals:

MOLYBDENUM (Mo)..... 90 - 130 PPM  
LEAD (Pb) ..... 6 - 30 PPM  
NICKEL (Ni) ..... 1.3- 5.0 PPM  
COBALT (Co) ..... 0.2- 3.0 PPM  
COPPER (Cu) ..... 0.4- 2.0 PPM  
MERCURY (Hg)..... 0.4- 1.6 PPM  
SELENIUM (Se)..... 0.8- 1.1 PPM  
ARSENIC (As)..... 0.2- 1.9 PPM

\*\*Not for Pesticidal or Medicinal Use\*\*

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DATE CREATED: 03/09/2004

REVISION DATE: 07/10/2007

Run Date: 08/27/2008  
I/M Date: 08/27/2008

Chem One Ltd  
8017 Pinemont Drive , #100  
Houston, Texas 77040-6519

Page: 1  
Time: 11:31:14A

ITEM: ZSPRZL50L40 Zinc Sulfate Mono - 35.5% Pril  
REF: PDS PRODUCT DATA SHEET  
MFG BATCH OR LOT #:

Certificate Date:  
Receipt Date: 07/08/2008  
Expiration Date:  
Shelf Life: 3 yr

SYNONYMS: Zinc Sulfate Hydrate, White Copperas	CHEMICAL FORMULA: ZnSO4.H2O
APPEARANCE: Beige Prilled- Maximo 361	CAS NUMBER: 7446-19-7
COUNTRY OF ORIGIN: Mexico	MOLECULAR WEIGHT: 179.40
	PACKAGING: 50 lb bag

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	Specifications		Typical
Zinc	35.5%	min	35.6-36.0%
Chloride	1.0%	max	0.2-0.7%
Cadmium	0.01%	max	0.001-0.007%
Iron	0.5%	max	0.3-0.5%
35.5% Zn= 97.4% ZnSO4.H2O			
Other Data Provided			
Sulfur	17%	min	
Insolubles	0.1%	max	
Lead	0.01%	max	
Copper	0.01%	max	
Calcium	0.03%	typ	

Particle size for prilled: -16 +40 mesh, "mini prilled" pH 5.50, Specific Gravity 3.540, Bulk Density 95-100 lb/cu ft

Typical ranges in heavy metals:

MOLYBDENUM (Mo)..... 90 - 130 PPM  
LEAD (Pb) ..... 6 - 30 PPM  
NICKEL (Ni) ..... 1.3- 5.0 PPM  
COBALT (Co) ..... 0.2- 3.0 PPM  
COPPER (Cu) ..... 0.4- 2.0 PPM  
MERCURY (Hg)..... 0.4- 1.6 PPM  
SELENIUM (Se)..... 0.8- 1.1 PPM  
ARSENIC (As)..... 0.2- 1.9 PPM

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REVISION DATE: 08/22/2008