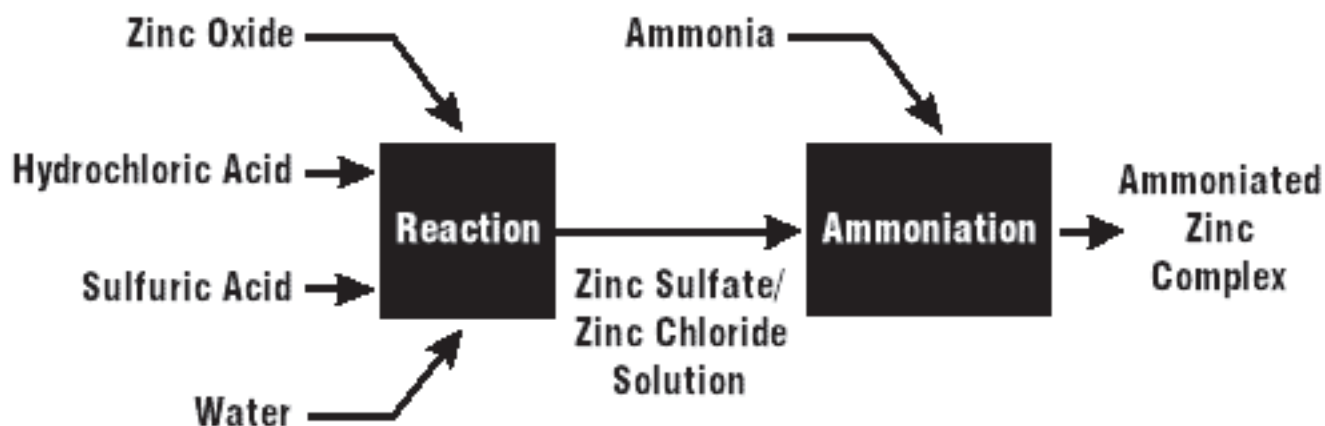




INFORMATIONAL REPORT

NULEX® LIQUID ZINC

Environmental and Product Quality Report



GUARANTEED MINIMUM ANALYSIS			
	NULEX 10	NULEX 15	NULEX 20
Nitrogen (N)	9.00%	13.00%	16.00%
Zinc (Zn)	10.00%	15.00%	20.00%

HEAVY METALS GUARANTEED MAXIMUM ANALYSIS			
	NULEX 10	NULEX 15	NULEX 20
Arsenic(As)	0.0003%	0.0003%	0.0003%
Lead (Pb)	0.0020%	0.0020%	0.0020%
Cadmium (Cd)	0.0020%	0.0020%	0.0020%
Mercury (Hg)	0.0001%	0.0001%	0.0001%
Selenium (Se)	0.0010%	0.0010%	0.0010%

TYPICAL ANALYSIS AND PROPERTIES			
	NULEX 10	NULEX 15	NULEX 20
Nitrogen	9.50%	13.50%	17.10%
Zinc	10.20%	15.20%	20.00%
Sulfur	3.30%	5.40%	2.40%
Chloride	4.70%	6.20%	16.20%
Arsenic (As)	0.00008%	0.00008%	0.00008%
Lead (Pb)	0.00020%	0.00020%	0.00020%
Cadmium (Cd)	0.00030%	0.00030%	0.00030%
Mercury (Hg)	not detected	not detected	not detected
Selenium (Se)	0.00100%	0.00100%	0.00100%
Organics	nil	nil	nil
Solids	36.92%	54.91%	65.60%
Water	63.08%	45.09%	34.40%
Specific Gravity	1.220	1.336	1.361
Pounds per Gallon	10.20	11.20	11.40
Gallons per Ton	196.08	178.60	175.40

-Summary of Nulex® Liquid Zinc 15 Corrosive Test-

The potential irritant and/or corrosive effects of NULEX Liquid Zinc 15 were evaluated on the skin of New Zealand White rabbits. Each of six rabbits received three 0.5 mL doses of the test article as a single dermal application. The doses were held in contact with the skin under a semi-occlusive binder for exposure periods of 3 minutes, 1 hour and 4 hours, respectively. Following the 3-minute exposure period, an approximate 2" X 2" section of the overlying elastic wrap was cut and the patch was removed. Any residual test article was removed by wiping the test site with gauze moistened with deionized water. Following the 1-hour exposure period, an approximate 2" X 2" section of the overlying elastic wrap was cut and the patch was removed. Any residual test article was removed by wiping the test site with gauze moistened with deionized water. Following the 4-hour exposure, the binder was removed and the remaining test article was wiped from the skin using gauze moistened with deionized water. Test sites were subsequently examined and scored for dermal irritation for up to 72 hours following patch removal.

Exposure to the test article for a 3-minute exposure period produced a pinpoint area of erythema on 1/6 test sites. No other dermal irritation was noted during the study.

Exposure to the test article for a 1-hour exposure period produced very slight erythema on 3/6 test sites by the 24 hour scoring interval. The dermal irritation resolved completely in all animals by the 72 hours scoring interval.

Exposure to the test article for a 4 hour exposure period produced very slight to well-defined erythema on 6/6 test sites and very slight edema on 2/6 test sites by the 24 hour scoring interval. The dermal irritation resolved completely in 3/6 animals by the 72 hour scoring interval.

Under the conditions of this test, NULEX Liquid Zinc 15 did not produce evidence of corrosion during the 3-minute, 1 or 4-hour exposure periods.

-Summary of Nulex® Liquid Zinc 20 Corrosive Test-

The potential irritant and/or corrosive effects of NULEX Liquid Zinc 20 were evaluated on the skin of New Zealand White rabbits. Each of six rabbits received three 0.5 mL doses of the test article as a single dermal application. The doses were held in contact with the skin under a semi-occlusive binder for exposure periods of 3 minutes, 1 hour and 4 hours, respectively. Following the 3-minute exposure period, an approximate 2" X 2" section of the overlying elastic wrap was cut and the patch was removed. Any residual test article was removed by wiping the test site with gauze moistened with deionized water. Following the 1 hour exposure period, an approximate 2" X 2" section of the overlying elastic wrap was cut and the patch was removed. Any residual test article was removed by wiping the test site with gauze moistened with deionized water. Following the 4-hour exposure, the binder was removed and the remaining test article was wiped from the skin using gauze moistened with deionized water. Test sites were subsequently examined and scored for dermal irritation for up to 72 hours following patch removal.

Exposure to the test article for a 3-minute exposure period produced very slight erythema on 5/6 test sites at the 3 minute scoring interval. The dermal irritation resolved completely in all animals by the 72 hour scoring interval.

Exposure to the test article for a 1 hour exposure period produced very slight to well-defined erythema on 5/6 test sites and very slight edema on 1/6 test sites by the 24 hour scoring interval. The dermal irritation resolved completely in 4 of the affected animals by the 48 hour scoring interval. Dermal irritation remained on 1/6 test sites at study termination (72 hour scoring interval). Additional dermal findings of focal and/or pinpoint superficial lightening, blanching and eschar were noted on 1/6 test sites.

Exposure to the test article for a 4-hour exposure period produced very slight erythema on 6/6 test sites at the 4 hour scoring interval and very slight edema on 1/6 test sites at the 24 hour scoring interval. The dermal irritation resolved completely in 5/6 animals by the 72 hour scoring interval.

Under the conditions of this test, NULEX Liquid Zinc 20 did not produce evidence of corrosion during the 3 minute, 1 or 4 hour exposure periods.



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Report Number 96-121-2067	Report of Analysis for: (12552) Nutra-Flo Date	Reported: 04/30/96 Date Received: 04/18/96
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Lab Number: 295796					
Analysis	Level	Found Units	Detection	Limit Method	Analyst- Date
Sample ID: 1235 Nulex 20					
Arsenic (total)	0.81	ppm	0.50	Furnace AA	kem-04/29
Cadmium (total)	2.24	ppm	0.50	ICAP	jsm-04/29
Iron (total)	4.6	ppm	2.0	ICAP	jsm-04/29
Lead (total)	0.94	ppm	0.20	Furnace AA	jsm-04/29
Manganese (total)	9.0	ppm	1.0	ICAP	jsm-04/29
Sample ID: 1236 Nulex 10					
Arsenic (total)	0.51	ppm	0.50	Furnace AA	kem-04/29
Cadmium (total)	4.35	ppm	0.50	ICAP	jsm-04/29
Iron (total)	n.d.	ppm	2.0	ICAP	jsm-04/29
Lead (total)	0.50	ppm	0.20	Furnace AA	jsm-04/29
Manganese (total)	2.6	ppm	1.0	ICAP	jsm-04/29
Sample ID: 1237 Nulex 15					
Arsenic (total)	n.d.	ppm	0.50	Furnace AA	kem-04/29
Cadmium (total)	2.40	ppm	0.50	ICAP	jsm-04/29
Iron (total)	n.d.	ppm	2.0	ICAP	jsm-04/29
Lead (total)	n.d.	ppm	0.20	Furnace AA	jsm-04/29
Manganese	27.0	ppm	1.0	ICAP	jsm-04/29

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