

**MATERIAL SAFETY DATA SHEET: MICRO-COVER-WHITE AEROSOL**

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DATE OF ISSUE  
11/01/2001SUPERSEDES  
5/14/1999**SECTION I - GENERAL INFORMATION**Chemical Name & Synonyms  
N/ATrade Name & Synonyms  
MICRO-COVER-WHITE AEROSOLChemical Family:  
TITANIUM DIOXIDE DISPERSION

Formula Mixture --&gt; X

Manufacturer's Name:  
CHEMSEARCH DIV. OF NCH CORP.Address:  
BOX 152170  
IRVING, TX 75015Prepared By:  
C Williamson/ChemistProduct Code Number  
5045Emergency Phone Number:  
800-424-9300**SECTION II - HAZARDOUS INGREDIENTS**

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
TOLUENE	IRR/FLAM	50PPM 1	200PPM 2	N/E	108-88-3
TITANIUM DIOXIDE	IRRITANT	10MG/M3 1	15MG/M3 *2	N/E	13463-67-7
XYLENE (MIXED ISOMERS)	IRR/FLAM	100PPM 1	100PPM 2	150PPM 1	1330-20-7
CALCIUM CARBONATE	IRRITANT	10MG/M3 1	5MG/M3 **2	N/E	1317-65-3
ETHYLBENZENE	IRR/FLAM	100PPM 1	100PPM 2	125PPM 1	100-41-4
SOLVENT NAPHTHA, LIGHT ALIPHATIC	IRR/COMB	300PPM 1	100PPM 2	N/E	64742-89-8
SOLVENT NAPHTHA, LIGHT AROMATIC	IRR/COMB	300PPM 1	100PPM 2	N/E	64742-95-6
PROPANE	FLAM/ASPHY	2500PPM 1	1000PPM 2	N/E	74-98-6
N-BUTANE	FLAM/ASPHY	800PPM 1	N/E 2	N/E	106-97-8

\* TOTAL DUST

\*\* RESPIRABLE FRACTION

**SECTION III - PHYSICAL DATA**

Boiling Point (F):	-47 <sup>o</sup>	Specific Gravity (H2O=1):	0.84
Vapor Pressure (MM HG):	6225	Color:	WHITE-OFF WHITE
Vapor Density (Air=1):	>1	Odor:	AROMATIC
PH @ 100% :	N/A	Clarity:	OPAQUE
% Volatile by Volume:	78%	Evaporation Rate (BU A/C=1):	>1
H2O Solubility:	EMULSIPTABLE	Viscosity:	SEMI-VISCOUS

**SECTION IV - FIRE AND EXPLOSION HAZARD**

Flash Point -2 <sup>o</sup> F / C.C.	Flammable Limits PRODUCT MIXTURE	LEL 1.2%	UEL 10.9%
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Extinguishing Media  
 X <--Foam      <--Alcohol Foam      X <--CO2      X <--Dry Chemical      X <--Water Spray      X <--Other

Special Fire Fighting Procedures:  
 FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. OTHER EXTINGUISHING METHODS INCLUDE ALCOHOL-RESISTANT FOAM. NEVER USE A WATER JET AS THIS WILL JUST SPREAD THE FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:  
 VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND PLASHBACK. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING. USE CARE AS SPILLS MAY BE SLIPPERY.

Aerosol Level (NFPA 30B): 2

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)  
 2 <--Health      4 <--Flammability      0 <--Reactivity      <--Special

**SECTION V - HEALTH HAZARD DATA**

Threshold Limit Value:  
 NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

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## SECTION V - HEALTH HAZARD DATA (Continued)

## Effects of Overexposure:

## -Acute (Short Term Exposure)

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, REDNESS, SWELLING AND A STINGING SENSATION LIKE THAT OF FINE DUST IN THE EYES. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. REPEATED OR PROLONGED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: HIGH VAPOR CONCENTRATIONS CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. MAY CAUSE HEADACHE, DIZZINESS, DROWSINESS, UNCONSCIOUSNESS, ANESTHESIA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

## -Chronic (Long Term Exposure)

CHRONIC INHALATION OF SOLVENTS LIKE XYLENE HAVE CAUSED PERMANENT CENTRAL AND PERIPHERAL NERVOUS SYSTEM DAMAGE RESULTING IN DECREASED LEARNING ABILITY. A CONDITION KNOWN AS "PAINTER'S SYNDROME" CAN OCCUR CAUSING A LOSS OF SENSATION IN THE ARMS AND HANDS (PERIPHERAL NEUROPATHY). MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS. TARGET ORGANS: CENTRAL AND PERIPHERAL NERVOUS SYSTEMS.

Primary Routes of Entry: X <--Inhalation <--Ingestion X <--Absorption

## Emergency and First Aid Procedures:

## -Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

## -Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

## -Skin Contact:

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

## -Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

## -Notes to Physician:

INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

## SECTION VI - TOXICITY INFORMATION

## Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> Yes NTP--> No OSHA--> No ACGIH--> No OTHER--> No

VOC CONTENT: 56.7%

## TOLUENE

EYE-HMN-SDT: 300 PPM 3.  
SKN-RBT-SDT: 500 MG MODERATE 3.  
IHL-RAT LC50: 49 GM/M3/4H 3.  
ORL-RAT LD50: 636 MG/KG 3.

REPEATED ORAL ADMINISTRATION PRODUCED LIVER, KIDNEY AND BLOOD CHANGES IN RATS. INHALATION EXPOSURE PRODUCED LUNG IRRITATION AND DAMAGE IN RATS, BLOOD CHANGES IN RATS AND MICE, LIVER CHANGES IN RATS, MICE AND RABBITS, DECREASED RESISTANCE TO LUNG INFECTION IN MICE AND VARIOUS BRAIN EFFECTS INCLUDING SUBTLE BEHAVIOR CHANGES AND HEARING LOSS IN RATS AND MICE. 4.

## TITANIUM DIOXIDE

SKN-HMN SDT: 300 UG/3D-I MILD 3.  
IHL-RAT TCLO: 250 MG/M3/6H/4W-I 3.

## XYLENE (MIXED ISOMERS)

ORL-RAT LD50: 4300 MG/KG 3.  
IHL-RAT LC50: 5000 PPM/4H 3.  
IHL-HMN LCLO: 10000 PPM/6H 3.  
SKN-RBT LD50: >1700 MG/KG 3.  
SKN-RBT SDT: 500 MG/24H MODERATE 3.  
EYE-RBT SDT: 5 MG/24H SEVERE 3.

## CALCIUM CARBONATE

ORL-RAT LD50: 6450 MG/KG 5.  
EYE, NOSE, THROAT AND RESPIRATORY IRRITANT 6.

## ETHYLBENZENE

ORL-RAT LD50: 3500 MG/KG 3.  
IHL-HMN TCLO: 100 PPM/8H 3.  
SKN-RBT LD50: 17800 UL/KG 3.  
SKN-RBT OPEN: 15 MG/24H MILD 3.  
EYE-RBT SDT: 500 MG SEVERE 3.

THE IARC HAS EVALUATED ETHYLBENZENE AND CLASSIFIED IT AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B) BASED ON SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN EXPERIMENTAL ANIMALS, BUT INADEQUATE EVIDENCE FOR CANCER IN EXPOSED HUMANS. A TWO YEAR RAT AND MOUSE GAVAGE STUDY BY THE NATIONAL TOXICOLOGY PROGRAM ON MIXED XYLENE ISOMERS INCLUDING 17% ETHYLBENZENE SHOWED NO EVIDENCE OF CARCINOGENICITY. 4.

## SOLVENT NAPHTHA, LIGHT ALIPHATIC

EYE-RBT SDT: 100 UL/24H MILD 3.  
ORL-RAT LD50: 8400 MG/KG 3.  
IHL-RAT TCLO: 1500 PPM 3.

SOLVENT NAPHTHA, LIGHT AROMATIC  
NO TOXICOLOGICAL DATA AVAILABLE

PROPANE  
NO TOXICOLOGICAL DATA AVAILABLE

N-BUTANE  
IHL-RAT LC50: 658 G/M3/4H 3.  
IHL-MUS LC50: 680 G/M3/4H 3.

HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO  
CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 4.

## SECTION VII - REACTIVITY DATA

**Stability:** X <--Stable <--Unstable  
**Conditions to Avoid:**  
AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

**Incompatibility (Materials to Avoid):**  
STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; STRONG ACIDS AND BASES.

**Hazardous Decomposition Products:**  
OXIDES OF CARBON AND CALCIUM.

**Hazardous Polymerization:** <--May Occur X <--Will Not Occur  
**Conditions to Avoid:**  
NONE KNOWN.

## SECTION VIII - SPILL OR LEAK PROCEDURES

**Steps to be Taken if Material is Released or Spilled:**  
DUE TO THE NATURE OF THE AEROSOL PACKAGING A LARGE SPILL IS UNLIKELY. ELIMINATE ALL SOURCES OF IGNITION. USE ONLY  
NON-SPARKING EQUIPMENT. WEAR APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY. VENTILATE THE AREA.  
DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR  
DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.  
FLUSH AREA WITH WATER.

**Waste Disposal Method(s):**  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL  
CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY  
AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

**Neutralizing Agent:**  
N/A

## SECTION IX - SPECIAL PROTECTION INFORMATION

**Required Ventilation:**  
LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

**Respiratory Protection:**  
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR  
WHERE MISTING EXISTS.

**Glove Protection:**  
NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

**Eye Protection:**  
CHEMICAL GOGGLES SHOULD BE WORN.

**Other Protection:**  
WEAR PROTECTIVE CLOTHING WHEN HANDLING.

## SECTION X - STORAGE AND HANDLING INFORMATION

**Storage Temperature:** Indoors--> X Outdoors--> Heated--> Refrigerated-->  
Minimum Temperature: 35°F Maximum Temperature: 120°F

**Precautions to be Taken in Handling and Storing:**  
CONTENTS UNDER PRESSURE. DO NOT USE OR STORE AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

**Other Precautions:**  
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. DO NOT  
PUNCTURE OR INCINERATE THIS CONTAINER. EXPOSURE TO TEMPERATURES ABOVE 120°F/49°C MAY CAUSE BURSTING.

## SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper & Limit
TOLUENE	108-88-3	15
XYLENE	1330-20-7	10
ETHYLBENZENE	100-41-4	5

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**SECTION XI - REGULATORY INFORMATION (Continued)**

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.  
This MSDS is not intended for users in the state of California.

**SECTION XII - REFERENCES**

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001. 2. OSHA PEL. 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINPOdisc, 2001. 4. VENDOR'S MSDS. 5. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, NINTH EDITION, RICHARD J. LEWIS, SR. 6. HAZARDOUS MATERIALS TOXICOLOGY - CLINICAL PRINCIPLES OF ENVIRONMENTAL HEALTH, WILLIAM AND WILKINS, 1992. ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY. IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT: MUTAGENIC, ASPHYX:ASPHYXIAN, PNO: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL:INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**Updated Price Sheet - Please Distribute to: Buyers • Estimators • Project Managers**  
**Edison Equipment Price Summary: May 15th 2006** phone (614)883-5710 fax (614)883-5711

(Have You Considered Using Aluminum Building Wire? It's Cheaper, Lighter, and Has Excellent Conductive Properties - Call Us for More Details)

Wire Size	THHN-CU	XHHW-CU	XHHN-AL	TYPE	SIZE	Price/M	Steel Conduit	wt. per 100'	ft. per 100'	Price/C	Sch40 Conduit	wt. per 100'	ft. per 100'	Price/C
14-STR	116.18	177.22		MC Cable	12-2-SOLID	499.36	1/2 GRC	82	2500	95.64	1/2 PVC	17	6000	19.96
12-STR	178.09	271.67		MC Cable	12-3-SOLID	768.93	3/4 GRC	109	2000	114.55	3/4 PVC	22	4400	27.93
10-STR	268.82	407.76		MC Cable	10-2-SOLID	1040.93	1 GRC	161	1250	197.87	1 PVC	32	3600	42.90
8-STR	450.82	687.70		MC Cable	10-3-SOLID	1509.55	1-1/4 GRC	218	900	227.00	1-1/4 PVC	43	3300	59.54
6-STR	680.21	1,037.61		MC Cable	12-2-STR	628.43	1-1/2 GRC	263	800	264.72	1-1/2 PVC	52	2250	74.95
4-STR	1,065.00	1,624.58		MC Cable	12-3 (109 lbs.)	628.43	2 GRC	350	600	379.78	2 PVC	70	1400	85.48
3-STR	1,534.52	2,035.71		MC Cable	10-2 (126 lbs.)	298.07	3 GRC	559	370	609.93	2-1/2 PVC	110	930	150.95
2-STR	1,676.02	2,556.64		NMB-W/G	14-3 (76 lbs.)	416.70	3 GRC	727	300	798.22	3 PVC	144	880	172.93
1-STR	2,119.82	3,233.63		NMB-W/G	12-2 (83 lbs.)	454.50	3-1/2 GRC	880	250	949.74	3-1/2 PVC	169	630	218.20
1/0-STR	2,403.67	3,666.62		NMB-W/G	10-3 (167 lbs.)	1077.29	4 GRC	1030	200	1052.33	4 PVC	204	570	237.05
2/0-STR	3,003.45	4,581.54		NMB-W/G	8-3 (270 lbs.)	1764.94	5 GRC	1400	150	1998.10	5 PVC	278	380	341.49
3/0-STR	3,764.38	5,742.27		NMB-W/G	6-3 (360 lbs.)	2578.67	1/2 EMT	30	7000	19.92	STRUT-SHALLOW (7/8")			91.80
4/0-STR	4,718.30	7,197.41		NMB-W/G	12-2 (97 lbs.)	539.22	1 EMT	67	3000	79.18	STRUT-DEEP (1 5/8")			119.85
250MCM	5,439.69	8,297.83		UF-W/G	10-2 (141 lbs.)	864.96	1-1/4 EMT	101	2000	116.53	Remember: Prices may be affected by quantity, special delivery requirements, or market conditions. Please call or fax us to confirm prices or to place an order.			
300MCM	6,472.68	9,873.58		UF-W/G	6-SOLID	587.97	2 EMT	148	1200	173.02				
350MCM	7,591.31	11,579.97		UF-W/G	4-SOLID	935.34	2-1/2 EMT	216	610	271.48				
400MCM	8,648.28	13,192.29		UF-W/G			3 EMT	263	510	399.88				
500MCM	10,722.90	16,356.96		UF-W/G			4 EMT	349	370	429.72				
600MCM	12,879.39	19,646.53												
750MCM	18,709.34	28,539.67												
1000MCM	24,804.30	37,837.07												

Last Friday: 3.96

3 Months Ago: 2.63

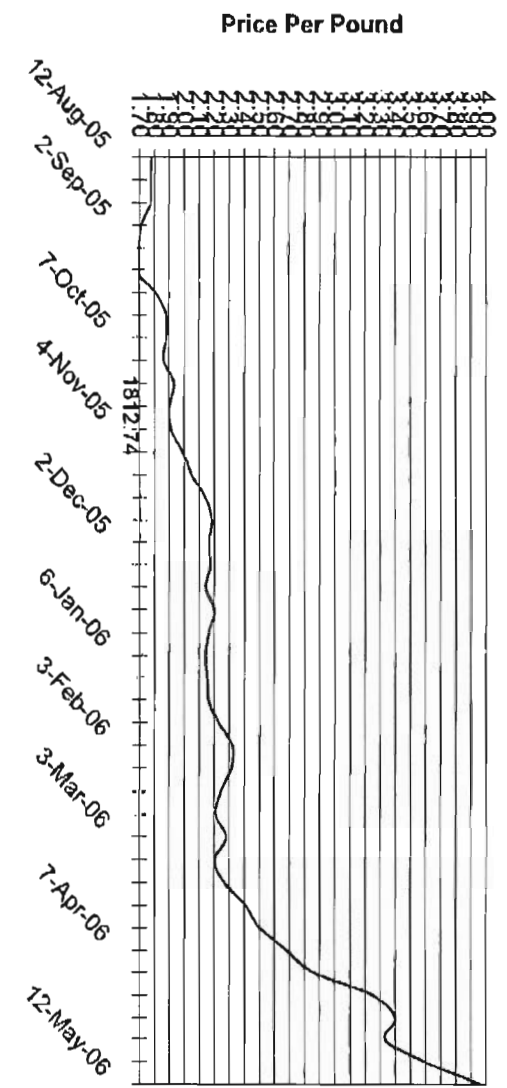
One Month Ago: 2.75

1 Year Ago: 1.58

**Copper Price History**

**Copper Closed @ \$3.96 on Friday**  
 Wire Prices Still Subject to Daily Changes

Price Increases Have Been Announced By Most Electrical Manufacturers and Will Take Effect By June 1st  
 Zinc Has Risen Dramatically in Recent Weeks, and Die-Cast Products Have Taken a 50% Price Increase This Month



**EDISON EQUIPMENT**  
 Electrical Products For The Professional



Summer is Back and so are Free Lunches at Edison Equipment - Every Friday @ Our Counter - June 2nd Thru September 1st