

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ZINC CHROMATE PRIMER - GREEN
PRODUCT CODE: 101-035

HMS CODES: H F R P
2* 3 0 G

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: THE SIMPSON COATINGS GROUP
ADDRESS: 111 SOUTH MAPLE AVENUE, SOUTH SANFRANCISCO, CA. 94080
EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: 650-873-5990
DATE REVISED : 01-19-01 NAME OF PREPARER : TIM SIMPSON
REASON REVISED : ANNUAL REVISION

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		OSHA/PEL	ACGIH/TLV	OTHER		
*METHYL-BENZENE	108-88-3	100 PPM	50 PPM		22.0 68F	6
*MIXED XYLENES	1330-20-7	100 PPM	100 PPM		5.1 68F	4
ALIPHATIC PETROLEUM DISTILLATES	64742-49-0	300 PPM	400 PPM		1.7 100F	(5.0%
*ZINC COMPOUNDS	7440-66-6				N/A	9
*HEXAVALENT CHROMIUM	7440-47-3	0.5 MG/M3	0.5 MG/M3		N/A	2.52
ALIPHATIC HYDROCARBON	64742-89-8	300 PPM	300 PPM	400 PPM PS	15.0 100F	5
HEPTANE	142-82-5	400 PPM	400 PPM		N/A	5
ALIPHATIC HYDROCARBON (STODDARD TYPE)	8051-42-3	100 PPM	100 PPM		2.0 68F	(5.0%
ACETONE	67-64-1	750 PPM	750 PPM		181.0 68F	(5.0%

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
WARNING! THIS PRODUCT CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 133 to 315 Deg F SPECIFIC GRAVITY (H2O=1): 1.2
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C. : 3.04 LB/GL (364 G/L)
MATERIAL V.O.C.: 2.68 LB/GL (321 G/L)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: VISCOUS LIQUID WITH HYDROCARBON SOLVENT ODOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: -1 Deg F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9% UPPER: 12.8%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS. FIGHT AS VOLATILE LIQUID FIRE USE WATER TO COOL FIRE-EXPOSED CONTAINERS. AVOID SPREADING FIRE WITH COOLING WATER. FOG NOZZLES FOR WATER IS RECOMMENDED.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY BE MOVED BY VENTILATION OR TRAVEL ON THE GROUND TO DISTANT SOURCES OF IGNITION. ISOLATE FROM ALL SOURCES OF HEAT. EMPTY CONTAINERS MAY EXPLODE DUE TO RESIDUES. OBSERVE THIS MSDS FOR EMPTIED CONTAINER HANDLING. ALL METAL CONTAINERS MUST BE BONDED AND/OR GROUNDED DURING LIQUID TRANSFER.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID

AVOID PROLONGED BREATHING OF VAPORS, SKIN OR EYE CONTACT. STORE AWAY FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, OPEN FLAME

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRONG OXIDIZING AGENTS, ACIDS AND BASES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, OTHER DIOXIDES, TOXIC FUMES AND SMOKE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

DIZZINESS, NAUSEA, HEADACHE, IRRITATION OF THE RESPIRATORY TRACT, VOMITING, UNCONSCIOUSNESS OR EVEN ASPHIXIATION. PROLONGED AND REPEATED OCCUPATIONAL OVEREXPOSURE TO THE SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN: IRRITATION, DRYING OR CRACKING AND DEFATTING.

EYES: IRRITATION OF THE EYES, WATERING, BLURRED VISION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SEVERE IRRITATION OR BURNING SENSATION. CRACKING AND DEFATTING ACTION MAY OCCUR.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

DIZZINESS, NAUSEA, IRRITATION OF THE GASTROINTESTINAL TRACT AND VOMITING. THIS PRODUCT HAS ANESTHETIC EFFECTS CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT WITH HEADACHE, NAUSEA, DIZZINESS, UNCONSCIOUSNESS OR COMA.

HEALTH HAZARDS (ACUTE AND CHRONIC)

EXCESSIVE CHRONIC EXPOSURE TO LEAD/CHROMIUM COMPOUNDS MAY CAUSE A METALLIC TASTE IN THE MOUTH, LOSS OF APPETITE, CONSTIPATION, ABDOMINAL CRAMPS, SLEEPLESSNESS OR WEAKNESS. CHROMIUM COMPOUNDS ARE CARCINOGENS. LEAD COMPOUNDS, WHEN INGESTED, HAVE A CUMULATIVE TOXIC EFFECT, WHEN AMOUNTS INGESTED EXCEED THE LEVEL IN WHICH THE BODY CAN NORMALLY ELIMINATE. PRODUCT CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CARCINOGENICITY: NTP? YES IARC MONOGRAPHS? YES OSHA REGULATED? YES

LEAD COMPOUNDS ARE OSHA SPECIFICALLY REGULATED (29 CFR 1910) AND CHROMIUM COMPOUNDS ARE NTP AND IARC HUMAN CARCINOGENS.

LEAD CHROMATE PIGMENT CONTAINS 60% BY WT. AS LEAD COMPOUNDS AND 13% BY WT. AS CHROMIUM COMPOUNDS, A HUMAN CARCINOGEN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

PRE-EXISTING HEART, LUNG, KIDNEY, LIVER, SKIN DISORDERS

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE FROM EXPOSURE, RESTORE BREATHING, CONSULT PHYSICIAN.

EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MIN. WITH EYELIDS OPEN. CONSULT PHYSICIAN IMMEDIATELY.

SKIN CONTACT: WASH WITH SOAP AND WATER., REMOVE CONTAMINATED CLOTHING.

INGESTION: DO NOT INDUCE VOMITING. DRINK ONE TO TWO GLASSES OF WATER TO DILUTE. SEEK MEDICAL ASSISTANCE IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CONTAIN AND REMOVE WITH INERT ABSORBANT AND NON-SPARKING TOOLS. WEAR PRETECTIVE EQUIPMENT DURING CLEANUP. CONTAIN LIQUID TO PREVENT CONTAINMENT OR SOIL AND GROUND WATER.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CLOSURE TIGHT AND CONTAINER IN UPRIGHT POSITION. STORE AWAY FROM HEAT OR OTHER SOURCES OF IGNITION. CONTAINERS MUST BE GROUNDED AND/OR BONDED DURING LIQUID TRANSFER. EMPTIED CONTAINERS MAY STILL CONTAIN HAZARDOUS MATERIALS THIS MSDS MUST BE OBSERVED WHEN HANDLING THEM.

OTHER PRECAUTIONS

THIS PRODUCT MAY CONTAIN LESS THAN 1% BY WEIGHT OF THE FLOWING COMPOUNDS:ETHANOL(CAS#67-17-5),METHANOL(CAS#67-56-1). BENZENE, A CANCER CAUSING AROMATIC COMPUND OCCURS IN ALL PETROLEUM PRODUCTS ESPECIALLY AROMATIC SOLVENTS AS AN IMPURITY. THIS PRODUCT ALSO CONTAINS LESS THAN 0.1% BY WEIGHT OF CRYSTALLINE SILICA(CAS#14464-46-1) WHICH HAS A LIMITED CARCINOGENICITY ON HUMANS AND CADMIUM(CAS#7440-43-9) WHICH IS A NTP ANTICIPATED HUMAN CARCINOGEN AND AN IARC PROBABLE HUMAN CARCINOGEN. MAY CONTAIN LESS THAN 1% COBALT, MANGANESE, AND ZINC COMPOUNDS(CATEGORY CODES: N096,N450,N982).

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

APPROVED CHEMICAL MECHANICAL FILTER RESPIRATOR

VENTILATION

REQUIRED, 200 CFM MINIMUM.

PROTECTIVE GLOVES

CHEMICALLY RESISTANT PLASTIC OR RUBBER.

EYE PROTECTION

SAFETY EYEWEAR WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

EYE WASH AND SAFETY SHOWERS IN WORK AREA ARE RECOMMENDED.

WORK/HYGIENIC PRACTICES

WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING. SHOWER DAILY AND CHANGE CLOTHES INCLUDING UNDERGARMENTS.

===== SECTION IX - DISCLAIMER =====

DISCLAIMER

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