

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: WROUGHT IRON BLACK
PRODUCT CODE: 101-037

HMS CODES: H F R P
2 2 0 G

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

MANUFACTURER'S NAME The Simpson Coatings Group, Inc.
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DATE REVISED : 02-08-01 NAME OF PREPARER : TIM SIMPSON
REASON REVISED : ANNUAL UPDATE

===== 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	8
ALIPHATIC HYDROCARBON (STODDARD TYPE)	8051-42-3	100 PPM	100 PPM		2.0 68F	10
*MIXED XYLENES	1330-20-7	100 PPM	100 PPM		5.1 68F	5
ALIPHATIC PETROLEUM DISTILLATES	64742-49-0	300 PPM	400 PPM		1.7 100F	(5.0%
CARBON BLACK	1333-86-4	3.5 MG/M3	3.5 MG/M3		N/A	(5.0%
ALIPHATIC HYDROCARBON	64742-89-8	300 PPM	300 PPM	400 PPM PS	15.0 100F	5
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 PRODUCTS 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. : 3.34 LB/GL (400 G/L)
MATERIAL V.O.C.: 3.19 LB/GL (382 G/L)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: VISCOUS LIQUID WITH DISTINCT 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 RECOMMENDED.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY TRAVEL TO SOURCES OF IGNITION AND CAUSE FLASH FIRE. ISOLATE FROM ALL SOURCES OF HEAT. EMPTY CONTAINERS MAY EXPLODE DUE TO RESIDUES. OBSERVE THIS MSDS. 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

USUAL PRODUCTS OF COMBUSTION; CARBON DIOXIDE, CARBON MONOXIDE, OTHER OXIDES, SMOKE, FUMES, ECT.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

CHRONIC EXPOSURE TO DUST OF THE SOLID RAW MATERIALS AND TO THE FUMES OF THE LIQUID RAW MATERIALS MAY CAUSE RESPIRATORY PROBLEMS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN: IRRITATION, DRYING, CRACKING, AND/OR DEFATTING.

EYES: IRRITATION OR EYE BURN.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SEVERE IRRITATION OR BURNING SENSATION. CRACKING, DEFATTING AND DERMATITIS MAY OCCUR ON PROLONGED EXPOSURE.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

DIZZINESS, NAUSEA. NOT EXPECTED TO HAVE ACUTE SYSTEMIC TOXICITY BY INGESTION.

HEALTH HAZARDS (ACUTE AND CHRONIC)

INHALATION: ANESTHETIC. IRRITATION OF RESPIRATORY TRACT WITH HEADACHE, NAUSEA, DIZZINESS, UNCONSCIOUSNESS OR COMA. INGESTION OF THIS PRODUCT OR SUBSEQUENT VOMITING CAN RESULT IN ASPIRATION OF LIGHT HYDROCARBON LIQUID INTO THE LUNGS WHICH CAN CAUSE FATAL CHEMICAL PNEUMONITIS. REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS IN THIS PRODUCT MAY LEAD TO PERMANENT BRAIN OR NERVOUS SYSTEM DAMAGE (ALSO KNOWN AS PAINTER'S SYNDROME).

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

THIS PRODUCTS CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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. ADMINISTER OXYGEN IF NEEDED. SEEK MEDICAL HELP IMMEDIATELY.

EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES WITH EYELIDS OPEN. SEE A 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 HELP IMMEDIATELY. KEEP PATIENT QUIET, WARM AND COMFORTABLE.

===== 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 PROTECTIVE EQUIPMENT DURING CLEANUP. CONTAIN LIQUID TO PREVENT CONTAMINATION OF SOIL AND GROUND WATER.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH ALL 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. HANDLE WHERE VENTILATION IS ADEQUATE AND AWAY FROM SOURCES OF IGNITION. EMPTIED CONTAINERS MAY STILL CONTAIN HAZARDOUS MATERIAL HENCE IT IS ADVISABLE TO OBSERVE THIS MSDS WHEN HANDLING THEM.

OTHER PRECAUTIONS

AVOID PROLONGED BREATHING OF VAPORS, SKIN OR EYE CONTACT. IN CASE OF CONTACT, WASH THOROUGHLY WITH SOAP AND WATER. THIS PRODUCT MAY CONTAIN LESS THAN 1% BY WEIGHT OF THE FOLLOWING HAZARDOUS INGREDIENTS: ZIRCONIUM COMPOUNDS (CAS#22464-99-9), ETHANOL(CAS# 67-17-5). BENZENE, A CANCER CAUSING COMPOUND, OCCURS IN ALL PETROLEUM PRODUCTS ESPECIALLY AROMATIC SOLVENTS AS AN IMPURITY. MAY CONTAIN LESS THAN .1% CRYSTALLINE SILICA (CAS# 14464-46-1) WHICH HAS LIMITED CARCINOGENICITY EVIDENCE IN HUMANS. MAY CONTAIN LESS THAN 1% BY WEIGHT OF: COBALT, MANGANESE, 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 SHOWER IN WORK AREA RECOMMENDED. USE PROTECTIVE HAND CREAMS TO PREVENT DEFATTING OF SKIN UPON EXPOSURE.

WORK/HYGIENIC PRACTICES

WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING BEFORE HANDLING FOOD OR SMOKING. DAILY SHOWERS RECOMMENDED.

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

DISCLAIMER

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