

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TOLUOL
PRODUCT CODE: 301-014

HMIS CODES: H F R P
2 3 0 G

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

MANUFACTURER'S NAME: The Simpson Coatings Group, Inc.
ADDRESS: 111 SOUTH MAPLE AVENUE, SO. S.F., CA 94080
EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: 650-873-5990
DATE REVISED : 06-25-02 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	100

* 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 POINT: 232 Deg F SPECIFIC GRAVITY (H2O=1): 0.9
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C. : 7.26 LB/GL (870 G/L)
MATERIAL V.O.C.: 7.26 LB/GL (870 G/L)
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: TURBID LIQUID WITH DISTINCT SOLVENT ODOR.

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

FLASH POINT: 45 Deg F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.2% UPPER: 7.0%

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

SPECIAL FIREFIGHTING PROCEDURES
FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILDUP, POSSIBLE AUTOIGNITION OR EXPLOSION DUE TO EXTREME HEAT.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. KEEP WORK AREA FREE FROM SOURCES OF IGNITION. VAPORS MAY TRAVEL ALONG GROUND OR BE MOVED BY VENTILATION TO SOURCES OF IGNITION. RESIDUE IN EMPTIED CONTAINERS CAN EXPLODE OR IGNITE EXPLOSIVELY. AA CONTAINERS MUST BE BONDED AND/OR GROUNDED DURING LIQUID TRANSFER.

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

**STABILITY: STABLE
CONDITIONS TO AVOID**

AVOID BREATHING OF VAPORS, SKIN OR EYE CONTACT. STORE AWAY FROM HEAT AND SOURCES OF IGNITION.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS, ACIDS, ALKALIES AND SELECTED AMINES.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY FORM TOXIC MATERIALS LIKE CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, SMOKE, TOXIC VAPORS AND FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA AND HEADACHE. HIGH CONCENTRATIONS MAY RESULT IN NARCOSIS. (CENTRAL NERVOUS SYSTEM DEPRESSION)

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EYE: REDDENING AND BURNING SENSATION, WATERING, AND BLURRED VISION.

SKIN: DRYING, REDDENING, IRRITATION, DEFATTING AND CRACKING.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SEVERE IRRITATION, DEFATTING OF SKIN, DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HEADACHE, DIZZINESS, NAUSEA, VOMITING, DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

HEALTH HAZARDS (ACUTE AND CHRONIC)

CHRONIC EXPOSURE MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM, RESPIRATORY SYSTEM, LUNGS, EYES, SKIN, GASTROINTESTINAL TRACT, LIVER, SPLEEN AND KIDNEYS. RATS EXPOSED TO XYLENE DURING PREGNANCY SHOWED EMBRYO/FETOTOXIC EFFECTS. ANIMAL STUDIES HAVE SHOWN THAT INHALATION OF HIGH LEVELS OF TOLUENE PRODUCED CARDIAC SENSITIZATION. SENSITIZATION MAY CAUSE FETAL CHANGES IN HEART RHYTHMS. PROLONGED EXPOSURE OF RATS TO XYLENE AND TOLUENE CAUSED HIGH FREQUENCY HEARING DEFECTS.

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

WARNING! THIS PRODUCT 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

SINUS AND LARYNGEAL CANCERS, PRE-EXISTING HEART, LUNG, LIVER, KIDNEY AND SKIN DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE FROM EXPOSURE, RESTORE BREATHING; ADMINISTER OXYGEN WHEN NECESSARY. SEEK MEDICAL HELP IMMEDIATELY.

EYE: WASH THOROUGHLY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES WITH EYELIDS OPEN. SEEK MEDICAL HELP IMMEDIATELY.

SKIN: WASH WITH LARGE AMOUNTS OF WATER. WATCH FOR SKIN DE-OILING. IF IRRITATION AND DRYNESS PERSISTS, SEEK MEDICAL HELP.

SWALLOWED: GIVE ONE TO TWO GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. SEEK MEDICAL HELP IMMEDIATELY. KEEP

PATIENT QUIET AND WARM. ASPIRATION OF VOMITUS INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE
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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. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. VAPORS GIVEN OFF MAY TRAVEL ALONG GROUND OR BE MOVED BY VENTILATION TO SOURCES OF IGNITION. EVEN RESIDUE MAY IGNITE EXPLOSIVELY!

OTHER PRECAUTIONS

AVOID PROLONGED BREATHING OF VAPORS, SKIN OR EYE CONTACT. SHOULD CONTACT BE MADE, REMOVE SATURATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER. REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE TO THE SOLVENTS PRESENT MAY CAUSE PERMANENT BRAIN OR NERVOUS SYSTEM DAMAGE (SOMETIMES REFERRED TO AS SOLVENT OR PAINTER'S SYNDROME). THIS PRODUCT CONTAINS LESS THAN 1% BY WEIGHT OF METHANOL (CAS NO: 67-56-1). BENZENE IS A KNOWN IMPURITY OF PETROLEUM DISTILLATION PRODUCTS AND IS CLASSIFIED AS A CANCER CAUSING AGENT BY CALIFORNIA PROPOSITION 65.

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SECTION VIII - CONTROL MEASURES
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RESPIRATORY PROTECTION

APPROVED CHEMICAL MECHANICAL FILTER RESPIRATOR.

VENTILATION

REQUIRED 200 CFM MINIMUM.

PROTECTIVE GLOVES

CHEMICALLY IMPERVIOUS 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 ARE RECOMMENDED.

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SECTION IX - DISCLAIMER
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DISCLAIMER

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