

MATERIAL SAFETY DATA SHEET

I. PRODUCT NAME AND MANUFACTURER

PRODUCT NAME: **566.1 SEALER** MSDS NO. **200003.1**

MATTHEWS INTERNATIONAL CORPORATION
PACKAGING GRAPHICS & DESIGN
252 Park West Drive
Pittsburgh, PA 15275
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II. PRODUCT INGREDIENTS

INGREDIENTS	%	CAS NO.	PEL	STEL-OSHA	TLV	STELTLV LD50
Toluene	30-40	108-88-3	100ppm	500ppm	50ppm	NE 5000 mg/kg, oral, rat
Methyl Ethyl Ketone	40-50	78-93-3	200ppm	300ppm	200ppm	300ppm 2737 mg/kg, oral, rat
Synthetic Rubber, Resins	20-30	NA	NE	NE	NE	NE No Data

III. POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW: Translucent amber mobile liquid with pungent odor. Flammable. Can cause central nervous system depression with narcotic effects in high concentrations. Reports have associated overexposure to solvents with permanent brain and nervous system damage. Repeated over-exposure to Toluene may cause liver damage. Exposure to Methyl Ethyl Ketone may enhance neurotoxicity of n-Hexane and Methyl-n-Butyl Ketone. Synergistic effect has resulted in peripheral neuropathy in humans.

EYES: May cause severe eye irritation, redness, tearing, and blurred vision..

SKIN: Liquid material may be absorbed through skin in harmful amounts. May cause defatting and drying, irritation of the skin.

INHALATION: May cause irritation of nose or throat. High concentrations may cause acute central nervous system depression characterized

by headaches, dizziness, nausea and confusion impairment of coordination and even asphyxiation.

INGESTION: Can cause gastrointestinal irritation, nausea, and vomiting and diarrhea. Aspiration of material into lung may cause chemical pneumonitis and pulmonary edema which can be fatal.

EFFECTS OF REPEATED OVEREXPOSURE: Repeated overexposure to toluene may cause liver damage. Exposure to methyl ethyl ketone may enhance the neurotoxicity of n-hexane and methyl-n-butyl ketone. This synergistic effect has resulted in peripheral neuropathy in humans. Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH: Toluene has been found to cause kidney, lung and spleen damage in laboratory animals. Laboratory studies involving rats indicate some evidence that Methyl Ethyl Ketone may be embryotoxic, phetotoxic, and terratogenic.

IV. FIRST AID

EYES: Immediately flush with large amounts of water, lifting upper and lower lids occasionally, for at least 15 minutes. Seek medical attention.

SKIN: Immediately wash the affected area with soap and water. Remove contaminated clothing as water is applied. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

INGESTION: If swallowed, do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

NOTES TO PHYSICIAN: Any treatment that might be required for over exposure should be directed at the control of symptoms and the clinical conditions.

V. FIREFIGHTING INSTRUCTIONS

FLASH POINT (Method Use): 14 F (-6.8° C) SFCC NFPA : Flammable Liquid, Class I B Liquid

FLAMMABLE LIMITS: LEL - 1.2% UEL - 11.5%

AUTO-IGNITION TEMPERATURE: No Data

EXTINGUISHING MEDIA: Small Fires: Use NFPA Class B Fire Extinguisher (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Large Fires: Polymer foam.

SPECIAL PROCEDURES: Firefighters should wear SCBA. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build up and possible auto ignition when exposed to extreme heat. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. DANGER- Extremely flammable. Vapors may cause flash fire. Vapors may ignite explosively!

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VI. ACCIDENT RESPONSE MEASURES

CHEMTREC TELEPHONE: 800-424-9300

NATIONAL SPILL RESPONSE CENTER: 800-424-8802

SPILL PROCEDURES: Wear respirators, eye, hand and body protection appropriate for the size of the spill and the exposure encountered. Keep unauthorized personnel away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Turn off all electrical motors in the vicinity. Dike and contain spill with inert material (sand, vermiculite, etc.). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent. Wear rubber gloves, and use rags or disposable paper towels. Dispose of contaminated absorbent materials in sealed containers.

VII. SAFE HANDLING AND STORAGE

Danger – Extremely flammable, harmful or fatal if swallowed. Do not store above 115° F (46° C). Store large quantities in compliance with applicable OSHA regulations (29 CFR 1910.106). Prohibit smoking in these areas. Do not store or use near sources of ignition (open flame, sparks, heat, etc.) or combustible materials. Containers should be grounded and bonded to the receiving container when dispensing this liquid product. Do not take internally. Close container after each use. Empty containers must not be washed and reused for any purpose. Never use pressure to empty. Drum is not a pressure vessel. Do not weld, braze or cut on empty container. Use with adequate ventilation. Avoid prolonged or repeated contact with skin and/or eyes. Do not transfer to an unmarked container.

VIII. ENGINEERING CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Control airborne concentrations below the exposure limits. Use only with adequate ventilation.

RESPIRATORY PROTECTION: Proper selection of respiratory protection depends on many factors including duration, level of exposure, and conditions of use. In general exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well ventilated areas. In restricted ventilation areas, a NIOSH approved chemical cartridge respirator may be required.

Under certain conditions, such as spraying, a mechanical pre-filter may be required. In confined areas use a NIOSH MSHA approved air supply respirator. If the TLV's listed in Section II are exceeded use a properly fitted NIOSH – MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection" and "Respiratory Protection – A Manual and Guideline – ACGIH."

VENTILATION: Provide local exhaust ventilation in sufficient volume and pattern to maintain exposures below nuisance dust levels and permissible exposure limits shown in Section II. Refer to Industrial Ventilation – A Manual by ACGIH for additional information.

HAND PROTECTION: Solvent impermeable gloves required for repeated and prolonged contact.

EYE PROTECTION: Wear safety glasses for normal use. Wear safety goggles when the potential for splash hazards exist.

OTHER PROTECTIVE EQUIPMENT: Not likely to be needed. Wash with soap and water before eating, drinking, smoking or using toilets.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 174 F, 64° C

VAPOR PRESSURE: 70.6

pH: NA

VOLATILE BY VOLUME: 82%

SOLUBLE IN WATER? Moderate

ODOR AND APPEARANCE: Translucent Amber liquid, with pungent odor.

MELTING POINT: NA

VAPOR DENSITY (Air =1): 2.76

SPECIFIC GRAVITY (H2O =1): 0.9, 7.4 lb/gal

VOC= 683 g/l

EVAPORATION RATE: Slower than ethyl ether

X. STABILITY AND REACTIVITY

STABILITY:

Normally stable under normal storage conditions.

CONDITIONS TO AVOID:

Fire, Excessive heat (>115° F, (46° C), sources of ignition.

INCOMPATIBILITY:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning, including when heated by welding or cutting may produce smoke, carbon monoxide, and carbon dioxide, HCL, CL2, Hydrocarbons.

HAZARDOUS POLYMERIZATION:

Will not occur under normal use conditions.

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XI. TOXICOLOGICAL INFORMATION

No Information Available.

XII. ECOLOGICAL INFORMATION

No Information Available.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, provincial and local regulations. Observe precautions for disposal of flammable materials. Used portions of 566 Sealer are considered hazardous waste under Federal Hazardous Waste Regulations (40 CFR 261). RCRA Waste Code Classification: D001, F005 NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

XIV. TRANSPORTATION INFORMATION

US DOT DESCRIPTION: Adhesives, 3, UN1133, PG II (Contains Toluene) – shipped in limited quantity lots. Shipping lots and packaging not approved for air transportation.

NA ERG: No. 127

The US Code of Federal Transportations, Regulations, and the policies established by some transporters require that the shipper properly classify and assign a Proper Shipping Name and label, mark and package the material properly. Therefore the user of this information is cautioned to consult with

Applicable regulations and with qualified advisors prior to the repackaging and/or reshipment of this or any other product which contain this product.

XV. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: All components contained in this product are considered hazardous ingredients.

CLEAN AIR ACT: This product contains the following hazardous air pollutants under section 112 of the 1990 Clean Air Act:
Toluene

CERCLA/SARA, 40 CFR 117, 302: No extremely hazardous substances are contained in this product.

REPORTABLE QUANTITIES: Toluene - 1,000 lbs Methyl Ethyl Ketone - 5000 lbs

SECTION 311/312 HAZARD CATEGORIES: Fire, Acute Health, Delayed Health

SECTION 313 TOXIC CHEMICALS: Toluene, Methyl Ethyl Ketone

HMIS RATINGS: Health 2 Flammability 3 Reactivity 0

STATE REGULATIONS: California: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

TSCA: All ingredients in this product are listed on the US TSCA inventory. For Toluene (108-88-3) TSCA (8a), (CAIR),(PAIR), (8d) DSL // For Methyl Ethyl Ketone (78-93-3) TSCA (8a)(PAIR)(8d) DSL

CANADA: All ingredients are listed on the Canadian Domestic Substance List.

XVI. OTHER INFORMATION

MSDS #200012 Original issue date: 01/04/08 Revised Prepared by: M.A. Remlinger / C. Spataro

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