

MATERIAL SAFETY DATA SHEET
PREPARED BY: Environmental, Health and Safety Department

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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| MANUFACTURER | U. S. COATINGS |
| ADDRESS | 9291 Watson Industrial Park St. Louis, MO 63126 314-522-9552 |
| INFORMATION | 314-239-4703 |
| EMERGENCY | HEAT GRIP 4950 |
| PRODUCT DESCRIPTION | HG2A054950 |
| PRODUCT CODE | |

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| | | | | | |
|--|---------------------|-------------------|---------------|------------------|------------------|
| 1 DIMETHYL BENZENE CAS#1330-20-7 XYLNE | | | | | |
| Pct By Wt: | 2 | Vapor Pressure: | 5.1 MMHG @68F | LEL: | 1.1 |
| ACGIH TLV-TWA | 100 PPM | ACGIH TLV-STEL/C | | 150 PPM | |
| OSHA PEL-TWA | 100 PPM | OSHA PEL-STEL | | 150 PPM | |
| OSHA PEL-CEILING | NE | | | | |
| SKIN DESIGNATION | NO | ODOR THRESHOLD | | .05 PPB | |
| LD50 (INGESTION) | 4.3 G/KG (ORAL-RAT) | LC50 (INHALATION) | | 5000 PPM/H (RAT) | |
| AUTOIGNITION TEMP. | 530 C / 986 F | FLASH POINT | | 27 C / 80 F | |
| Other Limits: | IARC-NO | NTP-NO | OSHA-NO | ACGIH-NO | NIOSH-NO HAPS-NO |

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|---|-------------|--------------------|---------------|-----------------------|------------------|
| 2 PHENYLETHANE CAS # 100-41-4 ETHYL BENZENE | | | | | |
| Pct By Wt: | .1 | Vapor Pressure: | 10 MMHG @ 68F | LEL: | 1.2 |
| ACGIH TLV-TWA | 100 PPM | ACGIH TLV-STEL/C | | 125 PPM | |
| OSHA PEL-TWA | 100 PPM | OSHA PEL-STEL | | 125 PPM | |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | | NO | |
| ODOR THRESHOLD | NA | LD50 (INGESTION) | | 3500 MG/KG (ORAL-RAT) | |
| LC50 (INHALATION) | 50 G/M3/2H | AUTOIGNITION TEMP. | | 468 C / 810 F | |
| FLASH POINT | 15 C / 59 F | | | | |
| Other Limits: | IARC-YES | NTP-NO | OSHA-NO | ACGIH-NO | NIOSH-NO HAPS-NO |

| | | | | | |
|--|-----------------------|-------------------|----------|-----------|------------------|
| 3 CARBON BLACK CAS# 1333-86-4 CARBON BLACK | | | | | |
| Pct By Wt: | 0.13 | | | | |
| ACGIH TLV-TWA | 3.5 MG/M3 | ACGIH TLV-STEL/C | | NE | |
| OSHA PEL-TWA | 3.5 MG/M3 | OSHA PEL-STEL | | NE | |
| OSHA PEL-CEILING | NE | SKIN DESIGNATION | | NE | |
| LD50 (INGESTION) | NA | LC50 (INHALATION) | | NA | |
| AUTOIGNITION TEMP. | IGNITION IN AIR ABOVE | 260 C / 500 F | | | |
| Other Limits: | IARC-YES (GROUP 2B), | NTP-NO | OSHA-NO, | ACGIH-NO, | NIOSH-NO HAPS-NO |

This product contains one or more reported carcinogens or suspect/experimental carcinogens which are noted IARC, NTP, OSHA, ACGIH or NIOSH in the Other Limits column.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding or grinding. Airborne nuisance particulates have an ACGIH TLV for Total Dust of 10 mg/M3.

IMPORTANT! This product may be blended with other products prior to use. Read all warnings and precautions on the MSDSs and labels of all products being blended as the combination may contain the hazards of each component.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: May cause severe irritation; symptoms include: stinging, tearing, redness, swelling and eye damage. Can cause severe irritation, possible permanent injury, burning, tearing, redness, swelling and corneal damage.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Prolonged contact may result in chemical burns and permanent damage. May be absorbed through the skin.

INHALATION: May cause irritation of the mucous membranes, cough, discomfort, rapid or difficult breathing or shortness of breath. Ammonium hydroxide is an experimental poison by inhalation. Can cause CNS effects including fatigue, weakness, headache, dizziness, nausea, vomiting, unconsciousness, coma, respiratory failure and death. May be aggravating to some asthma-type conditions, and to pre-existing liver and/or kidney disorders.

INGESTION: Severely toxic by ingestion. Can cause irritation of the digestive tract, nausea, vomiting and diarrhea. May cause signs of nervous system depression including drowsiness, dizziness, loss of coordination, fatigue, headache, nausea and vomiting. An experimental poison by ingestion.

POTENTIAL CHRONIC HEALTH EFFECTS: - Prolonged and repeated breathing of vapors, spray mist and/or sanding dust over a period of years may cause diseases of the lungs. - Prolonged overexposure to crystalline silica by inhalation may cause delayed lung injury/disease (silicosis). - Reports have associated repeated and prolonged occupational overexposure to solvents with brain and nervous system damage. Intentional misuse by

deliberately concentrating and inhaling this product may be harmful or fatal. - Overexposure can cause fibrosis (silicosis): Symptoms can include coughing, difficulty breathing, tightness of chest, hemorrhage, and wheezing. - Long term excessive exposures may cause talcosis, a pulmonary fibrosis with shortness of breath, chronic cough and respiratory-assisted heart failure. Prolonged exposure to talc can produce a mild symptomatic pneumoconiosis. - The adverse chronic health effects associated with crystalline silica include silicosis, cancer, scleroderma and tuberculosis. CARCINOGENICITY: - Contains Crystalline Silica which can cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure to dust from sanding surfaces or spray mist.) - Cancer - Carbon black has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. IARC has classified carbon black as a possible human carcinogen (Group 2B) however carbon black is not considered a carcinogen by the U.S. National Toxicology Program (NTP) or OSHA.

TARGET ORGANS: Overexposure to this material or its components has been suggested as a cause of the following effects in laboratory animals and/or humans, and may aggravate pre-existing disorders of these organs in humans:

- Eye damage
- Kidney damage
- Liver abnormalities
- Lung damage
- Nervous system damage
- Spleen damage
- Respiratory system

SECTION 4 - FIRST AID MEASURES

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids apart; Seek medical attention.

IF ON SKIN: Remove contaminated clothing and flush contaminated skin with large amounts of water. If skin is damaged or if symptoms persist seek medical attention. Launder clothing before reuse.

IF INHALED: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; Keep person warm and quiet. If individual is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

IF SWALLOWED: DO NOT induce vomiting unless directed to do so by medical personnel. Aspiration of material into lungs can cause chemical pneumonitis which may be fatal. If individual is drowsy or unconscious, place on their side with head down. Seek medical attention. If possible, do not leave individual unattended. Give at least 3-4 glasses of water but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE CHEMICAL: (Unless otherwise noted, data are derived from ingredients existing in this formula at concentrations of 1% by weight or greater, i.e., the flashpoint given is the lowest flashpoint of the ingredients listed in section 2.)

| | |
|---------------------------|----------------|
| Flashpoint | : Above 200F |
| Explosion Level | : Low - N/A |
| | : High - N/A |
| Flammability Limits | : Lower - N/A |
| | : Higher - N/A |
| Auto-ignition Temperature | : -N/A or |

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires; alcohol-type aqueous film-forming foam or water spray for large fires. Water may be ineffective but should be used to cool fire-exposed structures and vessels.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans and other non-explosion proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT: Self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use Dry chemical, Foam, CO2 or other approved method for treating a Class B Fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CLEAN-UP:

SMALL SPILL: Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert material such as sand, clay, earth, or floor absorbent, and shoveled into containers, with non-sparking tools. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

SECTION 7 - HANDLING AND STORAGE

HANDLING: SENSITIVITY TO STATIC DISCHARGE - Grounding/Bonding required
 STORAGE: Keep container tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 49 C/120 F. Do not transfer contents to bottles or unlabeled containers. Protect from freezing. Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). When empty, may contain explosive vapors. Do not cut, puncture or weld on or near this container. All hazard precautions given in this data sheet must be observed for empty containers.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION/VENTILATION: Use only with adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Use air purifying respirators fitted with organic vapor/HEPA cartridges only if air monitoring of the work area demonstrates solvent and particulate levels do not exceed the respirator Maximum Use Concentration. Use only properly fitted NIOSH approved respirators. Follow respirator manufacturer's directions for use. Engineering or administrative controls should be implemented to reduce exposure. Paint spray booths, local exhaust, and general exhaust systems are advisable to minimize exposure.
 PERSONAL PROTECTIVE EQUIPMENT: Use protective equipment to prevent contact with eyes, skin, or clothing. Use solvent resistant safety eyewear with splash guards. Protective garments such as nylon or Tyvek(R) coveralls typically used to protect from light overspray, splatters, etc. Saranex 23-P(R) coveralls recommended for messy applications. Nitrile or natural rubber gloves typically used to protect from minor contact. For prolonged contact, neoprene gloves are better and butyl are best.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------|----------------------------|-----------------|
| Physical Appearance | -N/A | |
| Odor | -N/A | |
| Physical State | -N/A | |
| pH | -N/A | |
| Vapor Density | -N/A | |
| Boiling Range | Lower | 212.0 F 100.0 C |
| | Higher | 302.0 F 150.0 C |
| Freezing Point | -N/A | øF |
| Melting Point | -N/A | øF |
| Water Solubility | -N/A | |
| Specific Gravity | 1.137 | |
| Formula Weight per Volume | 9.4636 LB/GL | |
| VOC | 0.1 lbs./gal. or 12 g/l | |
| Evaporation Rate | .000 (n-Butyl Acetate = 1) | |
| Viscosity | -N/A | |
| % Volatile by Weight | 59.5616 | |
| % Volatile by Volume | 67.9047 | |
| Coeff of Water-Oil Distribution | -N/A | |

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID AND INCOMPATIBILITIES: Chlorosulfonic acid, Nitric Acid, Hydrofluoric acid, Halogens, Nitromethane, Oleum, Oxidizing agents, Acrolein, Dimethyl sulfate, Propylene oxide, Silver nitrate.
 HAZARDOUS DECOMPOSITION PRODUCTS (Including Thermal Decomposition): Carbon dioxide and carbon monoxide, Ammonia, Toxic fumes, Various hydrocarbons, Nitrogen oxides, Dense smoke.
 POLYMERIZATION: - Polymerization is not expected to occur.
 STABILITY: - Stable under ordinary conditions of use and storage.

SECTION 11 - TOXICOLOGICAL INFORMATION

No additional toxicological data available. Please refer to Sections 2 & 3.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological data available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Do not incinerate closed containers.

SECTION 14 - TRANSPORT INFORMATION

DOT NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

SARA 313 INFORMATION This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. This product may contain trace amounts of Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Selenium, Silver, and/or Tin.
 STATE REGULATIONS: PER CALIFORNIA'S PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm. STATE REGULATIONS: PER CALIFORNIA'S PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer.

SECTION 16 - OTHER INFORMATION

FOR INDUSTRIAL USE ONLY: This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by, the general public.
 WARRANTY: Any recommendation of U.S. Coatings contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, U.S. Coatings makes no warranty or representation with respect thereto. Use or application of any U.S. Coatings product is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Coatings.

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