

EPON / ALUMINA
WASH ST PAPER

MATERIAL SAFETY DATA SHEET

SECTION - I - PRODUCT INFORMATION

MANUFACTURER: ITW-PHILADELPHIA RESINS CORPORATION
ADDRESS: 130 COMMERCE DRIVE, MONTGOMERYVILLE PA. 18936
EMERGENCY PHONE NO.: 215-855-8450
PRODUCT NAME: ITW-RAMSET EPON SYSTEM™ HARDENER
CERAMIC 6 FORMULA

FORMULA: MIXTURE

SECTION - II - HAZARDOUS INGREDIENTS

IDENTITY	HAZARD DATA	NATURE OF HAZARD
1. ALIPHATIC MERCAPTAN CAS # NONE REPORTED	NOT ESTABLISHED	SKIN & EYE IRRITANT
2. POLYMERCAPTAN CAS # NONE REPORTED	NOT ESTABLISHED	SKIN & EYE IRRITANT
3. AMORPHOUS SILICA, SILICON DIOXIDE CAS # 67762-90-7	TLV=10MG/M3 TOTAL DUST TLV=5MG/M3 RESPIRABLE DUST	RESPIRATORY IRRITANT EYE IRRITANT
4. TALC, MAGNESIUM SILICATE-HYDRATE WITHOUT ASBESTOS CAS # 14807-96-9	TLV=2MG/M3	RESPIRATORY HAZARD
5. GLASS OXIDE CAS # 65997-17-3	TLV=15MG/M3	RESPIRATORY HAZARD
6. CERAMIC POWDER, ALUMINUM OXIDE CAS # 1344-28-1	TOTAL DUST TLV=10MG/M3	RESPIRATORY HAZARD

SECTION - III - PHYSICAL DATA

APPEARANCE AND ODOR: BROWN PASTE WITH MERCAPTAN ODOR
BOILING POINT: NOT DETERMINED
VAPOR PRESSURE: NOT DETERMINED
PERCENT VOLATILE BY VOLUME: NOT DETERMINED
VAPOR DENSITY: NOT DETERMINED
EVAPORATION RATE: NOT DETERMINED
SOLUBILITY IN WATER: NOT DETERMINED
SPECIFIC GRAVITY (WATER=1): 1.9

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SECTION - IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT: > 200 DEGREES F

FLAMMABLE LIMITS: NOT DETERMINED

EXTINGUISHING AGENT: WATER SPRAY, DRY CHEMICAL, "ALCOHOL FOAM," OR CO2

SPECIAL FIRE FIGHTING PROCEDURES: USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A SPILL IS IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. PROTECTIVE CLOTHING AND SELF-CONTAINED RESPIRATORS SHOULD BE WORN BY FIREFIGHTERS IN AREA WHERE PRODUCT IS STORED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

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SECTION - V - HEALTH HAZARD DATA

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A. EXPOSURE LIMITS

OSHA PERMISSIBLE EXPOSURE LIMITS (PEL): NOT ESTABLISHED
THRESHOLD LIMIT VALUES (TLV): NOT ESTABLISHED FOR PRODUCT,
SEE SECTION II FOR INGREDIENTS.

B. EXPOSURE EFFECTS

SKIN CONTACT: HARDENER IS MILDLY IRRITATING UPON PROLONGED
OR REPEATED CONTACT. POSSIBLE ALLERGEN.

SKIN

ABSORPTION: MAY BE SLIGHTLY TOXIC

EYE CONTACT: MODERATLY IRRITATING TO THE EYES.

INHALATION: MERCAPTAN- SLIGHTLY TOXIC, BUT MAY BE IRRITATING WITH
NARCOTIC EFFECTS. POSSIBLE LUNG INJURY AND CHEMICAL
PNEUMONIA. FILLERS- ITEMS 3-6 SECTION II ARE
BLENDED INTO THE MERCAPTAN. THE INHALATION
HAZARDS DO NOT APPLY UNLESS THE CURED PRODUCT
IS GROUND OR MACHINED TO PRODUCE A DUST.

INGESTION: SLIGHTLY TOXIC. MAY CAUSE NAUSEA AND VOMITING.

SIGNS AND SYMPTOMS: MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION,
NAUSEA, AND VOMITING.

CHRONIC

OVEREXPOSURE: POSSIBLE DELAYED LUNG INJURY AND CHEMICAL PNEUMONIA.

SECTION - V- CONTINUED

FIRST AID

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION. CONTAMINATED LEATHER ARTICLES INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GIVE CONSCIOUS PATIENT TWO GLASSES OF WATER AND INDUCE VOMITING BY HAVING PATIENT STICK FINGER REPEATLY DOWN THROAT UNTIL VOMITING CEASES. SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION - VI - REACTIVITY

STABILITY: STABLE UNDER MOST INDUSTRIAL CONDITIONS.

INCOMPATIBILITY: CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS, EPOXY RESINS IN UNCONTROLLED AMOUNTS, AND AMINE MIXTURES, ESPECIALLY WHEN HOT.

HAZARD DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN AND SULFUR ON BURNING.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION - VII - SPILL OR LEAK PROCEDURES

A. STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
AVOID PERSONAL CONTACT. COVER SPILL AREA WITH ALCOHOL FOAM TO SUPPRESS VAPORIZATION. CLEAN UP SPILL IMMEDIATELY. SCRAPE UP AS MUCH OF SPILL AS POSSIBLE AND PLACE INTO CLOSED CONTAINER, LABEL, AND REMOVE TO A SAFE PLACE OUT OF DOORS TO AWAIT PROPER DISPOSAL. SPRINKLE A LIBERAL AMOUNT OF POTASSIUM PERMANGANATE OVER SPILL AREA TO REACT WITH SPILL RESIDUE. IF NEEDED, SPRINKLE AREA WITH WATER TO AID REACTION. AFTER 1 HOUR, SOAK UP WITH INORGANIC ABSORBANT MATERIAL AND PLACE ABSORBANT MATERIAL AND CONTAMINATED SOIL IN A CLOSED CONTAINER, LABEL, AND REMOVE TO A SAFE PLACE TO AWAIT PROPER DISPOSAL. THEN FLUSH SPILL WITH PLENTY OF WATER. PERSONS PERFORMING THIS WORK SHOULD WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

B. NEUTRALIZING CHEMICALS
POTASSIUM PERMANGANATE.

C. WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL

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SECTION - VIII - SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION:

NIOSH-APPROVED INDUSTRIAL CANISTER TYPE GAS MASK OR ORGANIC VAPOR CARTRIDGE RESPIRATOR.

VENTILATION:

GOOD INDUSTRIAL HYGIENE PRACTICES DICTATES THAT THE WORK AREA BE PROVIDED WITH ADEQUATE LOCAL EXHAUST VENTILATION OR OTHER CONTROLS TO PREVENT IRRITATION. IN HANDLING PRODUCT IN CONFINED AIR SPACE, USE RESPIRATORY EQUIPMENT DESCRIBED ABOVE.

SKIN AND EYE PROTECTION:

WEAR SAFETY GLASSES OR GOGGLES AS APPROPRIATE.
WEAR CLEAN LONG LEG AND SLEEVED CLOTHING.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER OR PLASTIC.

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SECTION - IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE WITH ADEQUATE VENTILATION
KEEP AWAY FROM OPEN FLAME AND HIGH TEMPERATURES.
PRACTICE GOOD HOUSEKEEPING PROCEDURES TO AVOID ALL SKIN CONTACT AND BREATHING OF VAPORS.
WASH THOROUGHLY AFTER HANDLING, AND BEFORE SMOKING, EATING OR USING TOILET FACILITIES.

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SECTION - X - FEDERAL AND STATE REGULATORY INFORMATION

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SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

AS #	CHEMICAL NAME	PERCENT BY WEIGHT
344-28-1	ALUMINUM OXIDE	1.4

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

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DATE OF PREPARATION: 4/3/89

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