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MSDS

Common Name: AS-5400 SYSTEM, AS5444402, AS5468402, AS5471402, AS5479402, AS5482402, AS5486402**Manufacturer:** RUST-OLEUM**MSDS Revision Date:** 1/9/2007**Grainger Item Number(s):** 1DN41, 1F712, 1F714, 1F716, 1F718, 2FP54, 3XH19, 6A933**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

AS-5400 SYSTEM ANTI-SLIP COATINGS

SECTION 1: PRODUCT IDENTIFICATION AND USE

**MFG'S NAME:**RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60016
847-367-7700**TRADE NAME:**AS-5400 SYSTEM
AS5444402, AS5468402, AS5471402,
AS5479402, AS5482402, AS5486402**CHEMICAL FAMILY:** EPOXY ESTER**DOT SHIPPING CLASSIFICATION (49 CFR 172.101):**
PAINT, 3, UN1263, III TRANSPORTATION**EMERGENCY NO. (24 HOURS):** 847-367-7700**HMIS RATING:**HEALTH 2
FLAMMABILITY 3
REACTIVITY 0**PREPARED BY:** REGULATORY DEPT.

DATE: 1/9/2007

REVISION: 8

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

INGREDIENTS	CAS NO.	%WT.	OSHA PEL	ACGIH TLV
EPOXY ESTER RESIN	68552-26-1	9-13%	N.E.	N.E.
XYLENE	1330-20-7	15-20%	100 PPM	100 PPM
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	<2%	100 PPM	100 PPM
ALUMINO-SILICATE MINERAL	37244-96-5	25-35%	10 MG/M3	10 MG/M3
SILICON DIOXIDE/SILICA (NON-RESPIRABLE SIZE)	14808-60-7	10-20%	0.1 MG/M3	0.1 MG/M3
ALUMINUM OXIDE	1344-28-1	11-17%	15 MG/M3	10 MG/M3
ORGANOPHILIC CLAY	71011-26-2	<5%	N.A.	N.A.
TITANIUM DIOXIDE	13463-67-7	<1%	10 MG/M3	10 MG/M3
CARBON BLACK	1333-86-4	<1%	3.5 MG/M3	3.5 MG/M3

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

SECTION 313 SUPPLIER INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING 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. THIS INFORMATION MUST BE INCLUDED ON THE MSDS COPIED AND DISTRIBUTED FOR THIS MATERIAL.

CHEMICAL NAME	CAS NUMBER	WEIGHT %
XYLENE	1330-20-7	15-20%

SECTION 3: PHYSICAL DATA

BOILING POINT: >240 DEG. F/116 DEG. C

SPECIFIC GRAVITY: 1.65

VAPOR PRESSURE: 8 MMHg @ 68 DEG. F/20 DEG. C

MELTING POINT: N.E.

VAPOR DENSITY: 3.7 (AIR = 1)

EVAPORATION RATE: 0.7 (BUTYL ACETATE = 1)

SOLUBILITY IN WATER: SLIGHT

APPEARANCE AND ODOR: PIGMENTED VISCOUS PASTE, MILD ODOR

SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT: >81 DEG. F/27 DEG. C PMCC

FLAMMABLE LIMITS:

LEL: 1.1

UEL: 7.0

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES:

REMOVE ALL IGNITION SOURCES. WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT WHERE POTENTIAL FOR EXPOSURE TO VAPORS OR PRODUCTS OF COMBUSTION EXISTS.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS:

CLOSED CONTAINERS MAY RUPTURE (DUE TO BUILD UP OF PRESSURE) WHEN EXPOSED TO EXTREME HEAT. DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

SECTION 5: HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION/SKIN/INGESTION

HEALTH HAZARDS (ACUTE AND CHRONIC):

EYES: IRRITANT. AGGREGATE MAY CAUSE INJURY.

SKIN: MAY CAUSE MODERATE IRRITATION AND SENSITIZATION.

INHALATION:

VAPORS MAY CAUSE HEADACHES, NAUSEA, DIZZINESS AND RESPIRATORY IRRITATION.

INGESTION:

NO SPECIFIC INFORMATION AVAILABLE. CONTAINS MATERIALS THAT MAY BE SLIGHTLY TOXIC.

CONDITIONS AGGRAVATED BY EXPOSURE:

ALLERGY, ECZEMA AND OTHER SKIN CONDITIONS.

CARCINOGENIC DATA:

THIS PRODUCT CONTAINS SILICON DIOXIDE/SILICA. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER ("IARC") CONCLUDED THAT THERE WAS "SUFFICIENT EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA IN THE FORMS OF QUARTZ OR CRYSTOBALITE FROM OCCUPATIONAL SOURCES.", THE OVERALL IARC EVALUATION WAS THAT "CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OR CRYSTOBALITE FROM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS (GROUP 1). NTP, IN ITS NINTH ANNUAL REPORT ON CARCINOGENS, HAS CLASSIFIED "SILICA, CRYSTALLINE (RESPIRABLE)" TO BE A CARCINOGEN." CRYSTALLINE SILICA IS NOT REGULATED BY OSHA AS A CARCINOGEN. SINCE ALL SILICON DIOXIDE/SILICA IS OF NON-RESPIRABLE SIZE AND ENCAPSULATED IN THE COATING NO OVER EXPOSURE TO AIRBORNE DUSTS IS TO BE EXPECTED. HOWEVER, DURING REMOVAL BY MECHANICAL ABRASION, APPROPRIATE SAFETY PRACTICES SHOULD BE FOLLOWED TO PREVENT INHALATION OF AIRBORNE DUSTS. THE CARBON BLACK PIGMENT IN THIS PRODUCT CONTAINS LESS THAN 0.1% POLYNUCLEAR AROMATIC HYDROCARBONS (PAH), SOME OF WHICH, IN NONADSORBED FORM, HAVE BEEN FOUND TO BE CARCINOGENS IN ANIMAL STUDIES. CARBON BLACK HAS NOT BEEN LISTED BY THE NTP OR OSHA. NIOSH RECOMMENDS THAT ONLY CARBON BLACKS WITH A PAH LEVEL GREATER THEN 0.1% BE CONSIDERED SUSPECT CARCINOGENS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER ("IARC") CLASSIFIES CARBON BLACK AS A SUSPECT HUMAN CARCINOGEN BASED ON ANIMAL STUDIES. SINCE THE CARBON BLACK IS NOT PRESENT IN RESPIRABLE FORM AND ENCAPSULATED IN THE COATING NO OVER EXPOSURE TO AIRBORNE DUSTS IS TO BE EXPECTED.

OVEREXPOSURE EFFECTS: IRRITATION, SENSITIZATION AND DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN:

REMOVE CONTAMINATED CLOTHING. WASH CONTACT AREA WITH MILD SOAP AND WATER.

INHALATION:

REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING (CONTAINS SOLVENT). GET MEDICAL ATTENTION.

SECTION 6: REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: EXCESSIVE HEAT

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 7: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ELIMINATE ALL IGNITION SOURCES. DIKE SPILL. ABSORB WITH INERT MATERIAL AND COLLECT FOR DISPOSAL. FLUSH CONTAMINATED AREA WITH WATER; PREVENT WASHINGS FROM ENTERING WATERWAYS.

WASTE DISPOSAL METHODS:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IF REQUIRED.

VENTILATION:

EXPLOSION-PROOF MECHANICAL VENTILATION AND LOCAL EXHAUST ARE RECOMMENDED. MECHANICAL EXHAUST IS NOT RECOMMENDED AS THE SOLE MEANS OF CONTROLLING EMPLOYEE EXPOSURE.

PROTECTIVE GLOVES: IMPERVIOUS GLOVES.

EYE PROTECTION: CHEMICAL SPLASH-PROOF GOGGLES.

OTHER PROTECTIVE EQUIPMENT:

IN OPERATIONS WHERE CONTACT MAY OCCUR COVERALLS, APRON AND IMPERVIOUS FOOT COVERING ARE RECOMMENDED.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL PERSONAL CONTACT. DO NOT EXCEED 110 DEG. F/43 DEG. C IN STORAGE AREA. GROUND AND BOND METAL CONTAINERS FOR LIQUID TRANSFER TO AVOID STATIC SPARKS.

SECTION 9: SPECIAL / OTHER INSTRUCTIONS

* A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE TO EMPLOYEES.

* CONTAMINATED CLOTHING SHOULD BE REMOVED IMMEDIATELY AND THOROUGHLY LAUNDERED BEFORE REUSE.

