

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **ARMOR-SHIELD RED OXIDE PENETRANT**
 IDENTIFICATION NUMBER: **AS8201 (M2)**
 PRODUCT USE/CLASS : PAINT LIQUID DATE PRINTED: 06/27/06

SUPPLIER: WATSON COATINGS, INC.
 P. O. BOX 35067
 325 PAUL AVENUE
 ST. LOUIS, MO 63135

MANUFACTURER: WATSON COATINGS, INC.
 P. O. BOX 35067
 325 PAUL AVENUE
 ST. LOUIS, MO 63135

EMERGENCY TELEPHONE:800-424-9300
 24 HOUR EMERGENCY HOTLINE

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PREPARER: RICK NOLES, PHONE: 314-521-2000, PREPARE DATE: 06/27/06

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % EQUAL TO			
01	ALIPHATIC HYDROCARBON	64742-88-7	40.2 %			
----- EXPOSURE LIMITS -----						
	ACGIH	OSHA	COMPANY			
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Harmful if inhaled. Harmful if swallowed. Vapors irritating to eyes and respiratory tract. Vapor reduces oxygen available for breathing. Combustible liquid and vapor.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - INHALATION: Prolonged inhalation may be harmful. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting, keep at rest and get prompt medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 105°F (40.6°C)
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: 0.8 %
UPPER EXPLOSIVE LIMIT: 6.0 %

AUTOIGNITION TEMPERATURE: OVER 800°F (426.7°C)

EXTINGUISHING MEDIA: ALCOHOL FOAM CO₂ DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling.

STORAGE: Keep away from heat, sparks and flame. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

RESPIRATORY PROTECTION: Provide sufficient ventilation to keep vapor concentrations below the given TLV and LEL levels. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister is recommended where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Gloves are required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Store contaminated clothing in well ventilated cabinets or closed containers, and wash thoroughly before reuse. Safety shower and eyebath should be in areas of use.

HYGIENIC PRACTICES: Wash hands before eating. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 300 - 415°F (148.9 - 212.8°C)		
ODOR	: MILD	VAPOR DENSITY	: IS HEAVIER THAN AIR
ODOR THRESHOLD	: HIGH		
APPEARANCE	: RED LIQUID	EVAPORATION RATE:	: IS SLOWER THAN ETHER
SOLUBILITY IN H ₂ O	: NO		
FREEZE POINT	: N.A.	SPECIFIC GRAVITY:	: 0.9723
VAPOR PRESSURE	: 0.3 mm Hg	pH @ 100.0 %	: N.A.
PHYSICAL STATE	: LIQUID	VISCOSITY	: 50-70" #4 FORD
COEFFICIENT OF WATER/OIL DISTRIBUTION:			

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Do not expose to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death.

INCOMPATIBILITY: Do not expose materials to strong oxidizing agents, concentrated nitric acid, halogens or molten sulphur.

HAZARDOUS DECOMPOSITION PRODUCTS: When burned, material will emit carbon monoxide, carbon dioxide and hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not flush into sewers or waterways. Any spills must be cleaned up and disposed of according to local, state and federal regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Consult an expert on disposal of recovered materials, and ensure conformity to local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID

DOT TECHNICAL NAME: COMBUSTIBLE LIQUID

DOT HAZARD CLASS: COMBUSTIBLE LIQUID HAZARD SUBCLASS: 3

DOT UN/NA NUMBER: UN1268 PACKING GROUP: III RESP. GUIDE PAGE:

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SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD

SARA SECTION 313:

This product contains the following 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:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
No SARA Section 313 components exist in this product.		

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
CALCIUM SULFONATE	
OIL MODIFIED ALKYD	
CALCIUM CARBONATE	1317-65-3
RED IRON OXIDE	1332-37-2

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
CALCIUM SULFONATE	
OIL MODIFIED ALKYD	
CALCIUM CARBONATE	1317-65-3
RED IRON OXIDE	1332-37-2

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

SECTION 15 - REGULATORY INFORMATION

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: B3, D2B

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 03/23/05

VOLATILE ORGANIC COMPOUNDS (VOCS): 3.34 lbs/gal, 400 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>