

**1 IDENTIFICATION**

PRODUCT NAME: BORDEAUX STAIN

CHEMICAL NAME: FIREBRICK STAIN AND COLOR ENHANCER

PRODUCT USE: INDUSTRIAL APPLICATIONS

MANUFACTURER: ALSEY REFRACTORIES COMPANY  
266 STATE ROUTE 106 SOUTH  
ALSEY, IL 62610  
1-314-963-7900

EMERGENCY CONTACT: 1-314-963-7900  
MONDAY THRU THURSDAY, 09:00 – 15:00 US CENTRAL TIME [UTC-5]

**2 HAZARD IDENTIFICATION**

HAZARD CLASSIFICATION: SKIN CORROSION/IRRITATION – CATEGORY 4  
ORAL INGESTION – CATEGORY 4

SIGNAL WORD: **WARNING**

HAZARD STATEMENTS: ACUTE TOXICITY-DERMAL  
ACUTE TOXICITY-ORAL

PICTOGRAM:



PRECAUTIONARY STATEMENTS:  
PREVENTION: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.  
USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.  
USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.  
WASH THOROUGHLY AFTER HANDLING.

SUPPLEMENTAL INFORMATION:  
99.33% OF THE MIXTURE CONSISTS OF COMPONENTS OF UNKNOWN ACUTE ORAL TOXICITY. 99.53% OF THE MIXTURE CONTAINS COMPONENTS OF UNKNOWN DERMAL TOXICITY.

RESPONSE: INGESTION: CALL A POISON CENTER IF SWALLOWED  
SKIN IRRITATION: WASH WITH SOAP AND WATER.  
SEEK MEDICAL ATTENTION IF NECESSARY

### 3 COMPOSITION/INFORMATION ON INGR EDIENTS

CHEMICAL NAME	CAS-NO	WEIGHT %
2-PROPANOL-, 1-METHOXY -ACETATE	108-65-6	<10

### 4 FIRST AID MEASURES

SKIN CONTACT: IF SKIN IRRITATION OCCURS, WASH THOROUGHLY WITH SOAP AND WATER.  
 ORAL: CALL POISON CENTER  
 ROUTES OF ENTRY: MOUTH, SKIN

### 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL, OTHER.  
 PRECAUTIONS FOR FIREFIGHTERS: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.  
 UNUSUAL FIRE & EXPLOSION HAZARDS: CLOSED CONTAINERS CAN BUILD PRESSURE FROM HEAT AND RUPTURE VIOLENTLY. KEEP COOL WITH WATER. PRODUCT WILL NOT BURN BUT MAY SPATTER IF TEMPERATURE EXCEEDS BOILING POINT OF WATER.  
 DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS

MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK.

SPECIFIC METHODS USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS. GENERAL FIRE HAZARDS NO UNUSUAL FIRE OR EXPLOSION HAZARDS NOTED

### 6 ACCIDENTAL RELEASE MEASURES

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. ENSURE ADEQUATE VENTILATION. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

LARGE SPILLS: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL, WHERE THIS IS POSSIBLE. COVER WITH PLASTIC SHEET TO PREVENT SPREADING. ABSORB IN VERMICULITE, DRY SAND OR EARTH AND PLACE INTO CONTAINERS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER.

SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS. ENVIRONMENTAL PRECAUTIONS AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND.

### 7 HANDLING AND STORAGE

HANDLING: ENSURE PROPER VENTILATION. KEEP RESPIRATORY DEVICE AVAILABLE.

STORAGE: STORE IN ORIGINAL CONTAINER; AWAY FROM INCOMPATIBLE MATERIALS.

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID PROLONGED EXPOSURE. DO NOT TASTE OR SWALLOW.

WHEN USING, DO NOT EAT, DRINK OR SMOKE. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. USE CARE IN HANDLING/STORAGE.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES

CHEMICAL	CAS-NO	OSHA PEL (RESPIRABLE DUST)
2-PROPANOL,1-METHOXY ACETATE	108-65-6	TWA 50 PPM (WEEL)

BIOLOGICAL LIMIT VALUES NO BIOLOGICAL EXPOSURE LIMITS NOTED FOR THE INGREDIENT(S). EXPOSURE GUIDELINES

US - CALIFORNIA OELS: SKIN DESIGNATION

2-PROPANOL,1-METHOXY-,ACETATE (CAS 108-65-6) Can be absorbed through the skin

### APPROPRIATE ENGINEERING CONTROLS

GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

### SKIN PROTECTION

HAND PROTECTION WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. SUITABLE GLOVES CAN BE RECOMMENDED BY THE GLOVE SUPPLIER.

OTHER WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. RESPIRATORY PROTECTION IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. THERMAL HAZARDS WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.

### GENERAL HYGIENE CONSIDERATIONS

KEEP AWAY FROM FOOD AND DRINK. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	RED LIQUID	AUTO IGNITION:	PRODUCT IS NOT SELF-IGNITING
PHYSICAL STATE:	LIQUID	ODOR:	MILD
PH:	NA	WATER SOLUBILITY:	NOT AVAILABLE
FLASH POINT:	NOT APPLICABLE	EXPLOSION LIMITS:	NOT AVAILABLE
BOILING POINT:	~212 °F (> 100 °C)	MELTING POINT:	NOT AVAILABLE
SPECIFIC GRAVITY:	9.18 LB/GALLON		

### 10 STABILITY AND REACTIVITY

STABILITY:	PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF USE, STORAGE, AND TRANSPORTATION.
INCOMPATIBLE PRODUCTS:	SYRONG OXIDIZING AGENTS
CONDITIONS TO AVOID:	AVOID INCOMPATIBLE MATERIALS

### 11 TOXICOLOGICAL INFORMATION

#### INFORMATION ON LIKELY ROUTES OF EXPOSURE

INHALATION PROLONGED INHALATION MAY BE HARMFUL. SKIN CONTACT HARMFUL IN CONTACT WITH SKIN. EYE CONTACT DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION. INGESTION HARMFUL IF SWALLOWED.

#### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

**INFORMATION ON TOXICOLOGICAL EFFECTS ACUTE TOXICITY HARMFUL IN CONTACT WITH SKIN. HARMFUL IF SWALLOWED. SKIN CORROSION/IRRITATION PROLONGED SKIN CONTACT MAY CAUSE TEMPORARY IRRITATION. SERIOUS EYE DAMAGE/EYE IRRITATION**

DIRECT CONTACT WITH EYES MAY CAUSE TEMPORARY IRRITATION.

#### RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY SENSITIZATION NOT A RESPIRATORY SENSITIZER. SKIN SENSITIZATION THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.

GERM CELL MUTAGENICITY NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE

MUTAGENIC OR GENOTOXIC. CARCINOGENICITY RISK OF CANCER CANNOT BE EXCLUDED WITH PROLONGED EXPOSURE.

**IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY**

NOT AVAILABLE.

**NOT LISTED. US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS**

NOT AVAILABLE. REPRODUCTIVE TOXICITY THIS PRODUCT IS NOT EXPECTED TO CAUSE REPRODUCTIVE OR DEVELOPMENTAL EFFECTS. SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

NOT CLASSIFIED.

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE**

NOT CLASSIFIED.

ASPIRATION HAZARD NOT AN ASPIRATION HAZARD.

**12 ECOLOGICAL INFORMATION**

ECO TOXICOLOGICAL/CHEMICAL FATE INFORMATION: THE PRODUCT IS NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS. HOWEVER, THIS DOES NOT EXCLUDE THE POSSIBILITY THAT LARGE OR FREQUENT SPILLS CAN HAVE A HARMFUL OR DAMAGING EFFECT ON THE ENVIRONMENT. PERSISTENCE AND DEGRADABILITY NO DATA IS AVAILABLE ON THE DEGRADABILITY OF THIS PRODUCT. BIOACCUMULATIVE POTENTIAL MOBILITY IN SOIL NO DATA AVAILABLE. OTHER ADVERSE EFFECTS NO OTHER ADVERSE ENVIRONMENTAL EFFECTS.

**13 DISPOSAL INFORMATION**

DISPOSAL OF PRODUCT: COLLECT AND RECLAIM OR PLACE IN SEALED CONTAINERS, PRODUCT MAY BE DISPOSED OF IN A LICENSED WASTE FACILITY, IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

HAZARDOUS WASTE CODE: THE WASTE CODE SHOULD BE ASSIGNED IN DISCUSSION BETWEEN THE USER, THE PRODUCER AND THE WASTE DISPOSAL COMPANY.

**14 TRANSPORT INFORMATION**

U.S.A. DOT: NOT REGULATED.

CANADIAN TDG: NOT REGULATED.

ADDITIONAL INFORMATION: NOT DANGEROUS ACCORDING TO AVAILABLE INFORMATION.

**15 REGULATORY INFORMATION**

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. ONE OR MORE COMPONENTS ARE NOT LISTED ON TSCA. TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D).

NOT REGULATED. CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)

NOT LISTED. SARA 304 EMERGENCY RELEASE NOTIFICATION

NOT REGULATED. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)

NOT LISTED. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

HAZARD CATEGORIES IMMEDIATE HAZARD - YES

DELAYED HAZARD - NO FIRE HAZARD - NO PRESSURE HAZARD - NO REACTIVITY HAZARD - NO SARA 302 EXTREMELY HAZARDOUS SUBSTANCE NOT LISTED. SARA 311/312 HAZARDOUS CHEMICAL

**WARNING:** THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. US - CALIFORNIA PROPOSITION 65 - CRT: LISTED DATE/CARCINOGENIC SUBSTANCE  
ETHYL BENZENE (CAS 100-41-4) LISTED: JUNE 11, 2004

**16 OTHER INFORMATION**

HMIS® RATINGS HEALTH: 2\*

NFPA RATINGS: FLAMMABILITY: 0 PHYSICAL HAZARD: 0 HEALTH: 2 INSTABILITY: 0

NOTE: THIS SAFETY DATA SHEET CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION AND IS NOT TO BE DISCLOSED TO THE GENERAL PUBLIC OR TO COMPETITION EXCEPT AS REQUIRED BY LAW. THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH ELSEY REFRACTORIES COMPANY OR NOT. THIS INFORMATION IS OFFERED SOLELY FOR USE IN YOUR EVALUATION OF THIS PRODUCT IN RESPECT TO SAFETY, HEALTH, AND ENVIRONMENTAL HAZARDS.

**SDS STATUS: REPLACES ALL PRIOR SDS  
SDS END**