Hartindo AF31 MSDS (Eco Fire Break)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hartindo AF31

SYNONYMS: NA PRODUCT CODES: NA

MANUFACTURER: Newstar Chemicals (M) Sdn Bhd

DIVISION:

ADDRESS: No. 5 Block B, Jalan SS13

Subang Jaya 47500

Selangor Malaysia

NORTH AMERICAN DISTRIBUTOR: Eco Building Products, Inc.

ADDRESS: 909 West Vista Way

Vista, CA. 92083

EMERGENCY PHONE: (760) 732.5826 CHEMTREC PHONE: (800) 425.9300 OTHER CALLS: (619) 847.4355 FAX PHONE: (800) 516.1349

CHEMICAL NAME: Hartindo AF31

CHEMICAL FAMILY: Fire Inhibitor, fire suppression agent

CHEMICAL FORMULA: NA

PRODUCT USE: Liquid Fire Inhibitor, fire suppression agent, fire extinguisher agent

PREPARED BY: Mark Vuozzo PREPARED DATE: 06/15/2012 REVISION DATE: 02/04/2013 APPROVED BY: James Shanley, PE

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	Case No:
Potassium Citrate	~25 - 35	6100-05-06
H20 (Water)	~65 - 75	7732-18-5

SARA 313 REPORTABLE: None

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: No known hazards. May be absorbed into the body by ingestion or absorption through the skin. Solution may cause minor irritation to the eyes and skin.

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CARCINOGENICITY

OSHA: None ACGIH: None NTP: None IARC: None

OTHER: None

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with water as precaution. If eye irritation persists, seek medical attention. SKIN: Wash off with soap and water. If skin irritation persists, seek medical attention.

INGESTION: Drink water as a precaution. Seek medical attention if any symptoms appear.

INHALATION: Avoid inhalation of aerosols or mists as this may cause mild irritation of the respiratory tract. No known

inhalation toxicity.

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SECTION 5: FIRE-FIGHTING MEASURES FLAMMABLE LIMITS IN AIR, UPPER: None (% BY VOLUME) LOWER: None

FLASH POINT: F: None

C: None **METHOD USED: None**

SPECIAL FIRE FIGHTING PROCEDURES: None **UNUSUAL FIRE AND EXPLOSION HAZARDS: None HAZARDOUS DECOMPOSITION PRODUCTS: None**

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Contain spill area. For liquid spills use absorbent material. For solid spills vacuum or sweep up spill. Place spilled material in appropriate container for disposal.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep tightly closed in a dry and cool place.

OTHER PRECAUTIONS: No special restriction with regards to storage with other products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION: NA

RESPIRATORY PROTECTION: None EYE PROTECTION: Goggles SKIN PROTECTION: Gloves

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Light weight protective clothing

WORK HYGIENIC PRACTICES: Wash exposed skin after use

EXPOSURE GUIDELINES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE: Clear to pale yellow, slightly opaque liquid

ODOR: Slight sweet PHYSICAL STATE: S pH AS SUPPLIED: 7.5±1 pH (Other): None **BOILING POINT:**

F: 212 C: 100

MELTING POINT:

F: NA C: NA

FREEZING POINT:

F: 5 C: -10

EVAPORATION RATE: Same as water

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: 100%

PERCENT SOLIDS BY WEIGHT: Variable, no more than 10% MOLECULAR WEIGHT: Approximately the same as Water

VISCOSITY: 38.4 bus @

F: 100 C: 37.8

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None under normal use INCOMPATIBILITY (MATERIAL TO AVOID): No special restrictions HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No known eyes, skin or oral toxicity per 40 CFR 63.81-1, 4 &5, EPA.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Mobility is completely Soluble, No other data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: None required follow local and state or federal regulations for non-hazardous waste

RCRA HAZARD CLASS: NA

SECTION 14: TRANSPORT INFORMATION U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: TBA HAZARD CLASS: None ID NUMBER: Not required PACKING GROUP: TBA LABEL STATEMENT: TBA WATER TRANSPORTATION

PROPER SHIPPING NAME: TBA
HAZARD CLASS: None
ID NUMBER: Not required
PACKING GROUP: TBA
LABEL STATEMENTS: TBA
AIR TRANSPORTATION
PROPER SHIPPING NAME: TBA
HAZARD CLASS: None

ID NUMBER: Not required PACKING GROUP: TBA LABEL STATEMENTS: TBA

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not Applicable

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not Applicable SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not Applicable

311/312 HAZARD CATEGORIES: None 313 REPORTABLE INGREDIENTS: None STATE REGULATIONS: None

INTERNATIONAL REGULATIONS: None

SECTION 16: OTHER INFORMATION OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared by Mark Vuozzo with information provided by and from Newstar Chemicals, Pte

Ltd

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