NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 EPA REGISTRATION NO. ********

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ULTRA GARD BLACK

SYNONYMS:

PRODUCT CODES: FG438-6120

MANUFACTURER: Flexabar Corporation

DIVISION:

ADDRESS: 1969 Rutgers University Blvd.

Lakewood, NJ 08701 USA

EMERGENCY PHONE: 1-800-424-9300 CHEMTREC PHONE: 1-800-424-9300 OTHER CALLS: 1-732-901-6500 FAX PHONE: 1-732-901-6504

CHEMICAL NAME: NA
CHEMICAL FAMILY: NA
CHEMICAL FORMULA: NA

Lable ID 60103

PRODUCT USE: Premium Anti-Fouling Single Season Ablative Bottom Paint (Blue)

PREPARED BY: Hamdi Latif

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

APPEARANCE AND ODOR: Black viscous liquid. Aromatic odor.

ROUTES OF ENTRY: EYES, SKIN, INHALATION AND INGESTION

POTENTIAL HEALTH EFFECTS: VAPORS MAY CAUSE DROWSINESS AND DIZZINESS.

HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

SAFETY HAZARDS: COMBUSTIBLE LIQUID. VAPORS ARE HEAVIER THAN AIR. VAPORS MAY TRAVEL ACROSS THE

GROUND AND REACH REMOTE IGNITION SOURCES CAUSING A FLASHBACK FIRE DANGER.

ENVIROMENTAL HAZARDS: TOXIC TO AQUATIC ORGANISMS IN LIQUID FORM. MAY CAUSE LONG TERM ADVERSE

EFFECTS IN THE AQUATIC ENVIRONMENT WHEN IN LIQUID FORM.

SECTION 2 NOTES

NAME OF PRODUCT ULTRA GARD

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: CUPROUS OXIDE (CUPRIC OXIDE / METALLIC COPPER)

<u>CAS NO.</u> <u>% WT</u> <u>% VOL</u> <u>SARA 313 REPORTABLE</u>

 1317-39-1
 32.84 – 36.48
 YES

 (1317-3800)
 0.68 - 0.75
 YES

 (7440-50-8)
 0.68 - 0.75
 YES

ppm mg/m3

OSHA PEL-TWA: OSHA PEL STEL:

OSHA PEL CEILING: SEE NOTES AT SECTION END

ACGIH TLV-TWA: ACGIH TLV STEL: ACGIH TLV CEILING:

INGREDIENT: MINERAL SPIRITS (WHITE SPIRITS)

<u>CAS NO.</u> <u>% WT</u> <u>% VOL</u> <u>SARA 313 REPORTABLE</u>

64742-48-9 11.00 – 12.00 YES

ppm mg/m3

OSHA PEL-TWA: 100.00

OSHA PEL STEL : OSHA PEL CEILING:

ACGIH TLV-TWA: 100.00

ACGIH TLV STEL: ACGIH TLV CEILING:

INGREDIENT: ZINC OXIDE

<u>CAS NO.</u> <u>% WT</u> <u>% VOL</u> <u>SARA 313 REPORTABLE</u>

1314-13-2 2 - 5 YES

ppm mg/m3

OSHA PEL-TWA: OSHA PEL STEL : OSHA PEL CEILING:

ACGIH TLV-TWA: ACGIH TLV STEL: ACGIH TLV CEILING:

CGIH TLV CEILING: 2

INGREDIENT: XYLENE

CAS NO. % WT % VOL SARA 313 REPORTABLE

1330-20-7 10 - 20 YES

ppm mg/m3

OSHA PEL-TWA: OSHA PEL STEL: OSHA PEL CEILING:

ACGIH TLV-TWA: ACGIH TLV STEL:

ACGIH TLV CEILING: 651

NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 EPA REGISTRATION NO. ********

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS-CONTINUED

INGREDIENT: AROMATIC HYDROCARBON RESIN

CAS NO. % WT % VOL SARA 313 REPORTABLE

68410-16-2 10.00 - 15.00 NO

<u>ppm</u> <u>mg/m3</u> OSHA PEL-TWA: 15

OSHA PEL STEL: OSHA PEL CEILING:

ACGIH TLV-TWA: 10

ACGIH TLV STEL: ACGIH TLV CEILING:

INGREDIENT: CARBON BLACK

CAS NO. % WT % VOL SARA 313 REPORTABLE

1333-86-4 2.00 - 5.00 NO

 ppm
 mg/m3

 OSHA PEL-TWA:
 3.5

OSHA PEL STEL: OSHA PEL CEILING:

ACGIH TLV-TWA: ACGIH TLV STEL: ACGIH TLV CEILING:

SECTION 3 NOTES:

There is no ACGH TLV or OSHA PEL for cuprous oxide or cupric oxide. Exposure is governed by the 8 hour TWA established for finely divided copper in dusts and mists. Cuprous oxide, cupric oxide, and copper are not carcinogenic materials as listed by OSHA (29CRF 1910) or ACGIH (Appendix A, Threshold limit Values for Chemical Substances 1995-1996).

SECTION 4: FIRST AID MEASURES

GENERAL INFORMATION: IN GENERAL, NO TREATMENT IS NECESSARY, HOWEVER, OBTAIN MEDICAL ADVICE.

EYES: FLUSH EYES WITH LARGE QUANTITIES OF WATER, REST EYES FOR AT LEAST 30 MINUTES. IF IRRITATION

PERSISTS, SEE A PHYSICIAN.

SKIN: REMOVE CLOTHING. FLUSH AFFECTED AREA THOROUGHLY AND FOLLOW BY WASHING WITH SOAP AND

WATER. IF IRRITATION PERSISTS OR RASH DEVELOPS SEE A PHYSICIAN.

INGESTION: IF SWALLOWED, GIVE A LARGE QUANTITY OF WATER TO DRINK. DO NOT INDUCE VOMITING. IF VOMITING

OCCURS SPONTANEOUSLY, CONSULT A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF RAPID RECOVERY DOES NOT OCCUR, TRANSPORT TO THE NEAREST MEDICAL

FACILITY FOR ADDITIONAL TREATMENT.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: CAUSES CENTRAL NERVOUS SYSTEM DEPRESSION.

DERMATITIS MAY RESULT FROM PROLONGED OR REPEATED EXPOSURE.

POTENTIAL FOR CHEMICAL PNEUMONITIS.

SECTION 4 NOTES:

NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 EPA REGISTRATION NO. ********

SECTION 5: FIRE-FIGHTING MEASURES

CLEAR THE AREA OF ALL NON FIRE-FIGHTING PERSONAL

FLAMMABLE LIMITS IN AIR, UPPER:

(% BY VOLUME) UPPER 6 LOWER: .5

FLASH POINT:

F: 100

C: 37.8

METHOD USED: TAGLIABUE CLOSED CUP

AUTOIGNITION TEMPERATURE:

F: 446 - 540 C: 230 - 282

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

PROTECTION: D

EXTINGUISHING MEDIA: FOAM, WATER SPRAY OR FOG. DRY CHEMICAL POWDER MAY BE USED FOR SMALL FIRES ONLY.

DO NOT DISCHARGE EXTINGUISHING WATERS INTO THE AQUATIC ENVIRONMENT.

UNSUITABLE EXTINGUISHING: DO NOT USE WATER IN A JET

MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. PERSONS

NOT WEARING SUITABLE BREATHING PROTECTION SHOULD LEAVE THE AREA TO

PREVENT SIGNIFICANT EXPOSURE TO TOXIC COMBUSTION GASSES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CARBON MONOXIDE MAY EVOLVE IF INCOMPLETE COMBUSTION OCCURS. WILL

FLOAT AND CAN BE IGNITED ON SURFACE WATER. THE VAPOR IS HEAVIER THAN AIR AND SPREADS ALONG THE GROUND AND DISTANT IGNITION CAN OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC GAS GENERATION (CO2CO)

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: AVOID CONTACT WITH SPILLED MATERIAL. IMMEDIATELY REMOVE ALL CONTAMINATED

CLOTHING. FOR GUIDANCE ON SELECTION OF PERSONAL PROTECTION EQUIPMENT, SEE SECTION 8. PREVENT SPREAD OF SPILLED MATERIAL. PREVENT MATERIAL FROM ENTERING WATERWAYS OR SEWERS. PREVENT FROM CONTAMINATING SOIL. ONCE MATERIAL IS CONTAINED, ALLOW TO DRY, COLLECT MATERIAL FOR DISPOSAL. ADVISE ENVIROMENTAL AUTHORITIES IF LIQUID PRODUCT ENTERS WATERWAYS OR SEWERS.

SECTION 6 NOTES:

NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 **EPA REGISTRATION NO. *********

SECTION 7: HANDLING AND STORAGE

GENERAL PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME OR OTHER IGNITION

SOURCES. DO NOT SMOKE! AVOID BREATHING OF OR (CONTACT WITH) THE MATERIAL. ONLY USE IN A WELL VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING, FOR GUIDANCE ON SELECTION OF PERSONAL PROTECTION EQUIPMENT, SEE SECTION 8 OF THIS MSDS.

HANDLING AND STORAGE: AVOID CONTACT WITH SKIN, EYES AND CLOTHING. EXTINGUISH ALL FLAMES. DO NOT SMOKE. REMOVE IGNITION SOURCES. AVOID SPARKS. THE VAPOR IS HEAVIER THAN AIR. SPREADS ALONG THE GROUND AND DISTANT IGNITION IS POSSIBLE. ENSURE ELECTRICAL CONTINUITY BY BONDING AND GROUNDING ALL EQUIPMENT. RESTRICT LINE VELOSCITY DURING PUMPING IN ORDER TO AVOID ELECTROSTATIC DISCHARGE. AVOID SPLASH FILLING. DO NOT USE

COMPRESSED AIR FOR FILLING, DISCHARGING OR HANDLING OPERATIONS. HANDLE AND OPEN CONTAINER WITH CARE IN A WELL VENTILATED AREA. VENTILATE WORK PLACE WELL SO THAT THE OCCUPATIONAL EXPOSURE LIMIT IS NOT EXCEEDED. DO NOT EMPTY INTO DRAINS. MUST BE STORED IN ORIGINAL TIGHTLY SEALED CONTAINERS. IF TRANSFERRED TO A STORAGE TANK, TANK MUST BE APPROVED FOR PRODUCT. TANK MUST BE DIKED TO PREVENT SPILLED

PRODUCT FROM CONTAMINATING THE ENVIRONMENT. KEEP CONTAINER CLOSED WHEN NOT IN USE. FOR PROLONGED STORAGE, USE CONTAINERS MADE OF (OR LINED WITH) MILD STEEL OR STAINLESS STEEL. AVOID PROLONGED CONTACT WITH NATURAL, BUTYL OR NITRILE RUBBER.

OTHER PRECAUTIONS:

CONTAINERS EVEN WHEN EMPTIED CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL,

GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON, OR NEAR, CONTAINERS

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS: THE LEVEL OF CONTROLS AND TYPE OF PROTECTION WILL VARY DEPENDING ON POTENTIAL

EXPOSURE CONDITIONS. SELECT CONTROLS BASED ON A RISK ASSESSMENT OF LOCAL CONDITIONS. APPROPRIATE MEASURES INCLUDE: ADEQUATE EXPLOSION PROOF VENTILATION TO CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE/GUIDELINES LIMITS. EYE WASHES

AND SHOWERS FOR EMERGENCY USE.

RESPIRATORY PROTECTION: IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW

EXPOSURE GUIDELINES, USE NIOSH APPROVED RESPIRATOR FOR CHEMICAL VAPORS.

EYE PROTECTION: SPLASH PROOF GOGGLES OR FACE SHIELD.

SKIN PROTECTION: USE NITRILE RUBBER, PVC OR NEOPRENE RUBBER GLOVES, CHEMICAL APRON AND LONG SLEEVE SHIRT

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: FACILITIES USING THIS PRODUCT SHOULD BE EQUIPED WITH AN EYE WASH STATION.

WORK HYGIENIC PRACTICES: WASH WELL AFTER CONTACT WITH THIS PRODUCT, REMOVE CONTAMINATED CLOTHING

IMMEDIATELY AND DISPOSE OF PROPERLY.

EXPOSURE GUIDELINES: SEE SECTION 2

SECTION 8 NOTES:

NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 EPA REGISTRATION NO. ********

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: BLACK VISCOUS LIQUID

ODOR: TYPICAL HYDROCARBON

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: NA pH (Other): BOILING POINT:

F: 309 - 410 **C**: 154 - 210

FFLASH POINT:

F: 100.0 **C**: 37.8

MELTING POINT:

F: NA C: NA

FREEZING POINT:

F: NA C: NA

VAPOR PRESSURE AIR = $0.09 - 0.56 \text{ kPa AT } 20.0^{\circ} \text{ C/ } 68.0^{\circ} \text{ F}$

VAPOR DENSITY AIR = 1: 4.8

SPECIFIC GRAVITY (H2O = 1):

1.6110 @

68⁰ F: 20⁰ C:

EVAPORATION RATE:

BAc (=1): .1

SOLUBILITY IN WATER: NEGLIGBLE

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE X **UNSTABLE**

STABILITY: STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID (STABILITY): AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.

INCOMPATIBILITY (MATERIAL TO AVOID): STRONG OXIDIZING AGENTS, (HYDROGEN PEROXIDE / PERMANGANATES /

PERCHLORATES, DEPENDING ON THE AMOUNT. CONTACT CAN RESULT IN INTENSE

HEAT / EXPLOSION.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: TOXIC GAS GENERATION (CO₂CO) ON BURNING.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 10 NOTES:

NAME OF PRODUCT ULTRA GARD

FILE NO.: FG438-6120 MSDS DATE: 9/18/2012 EPA REGISTRATION NO. ********

SECTION 11; TOXICOLOGICAL INFORMATION

EYES: MAY CAUSE REDNESS, BURNING AND IRRITATION.

ACUTE DERMAL: MAY CAUSE IRRITATION / PROLONGED OR REPEATED CONTACT MAY CAUSE

DEFATTING OF THE SKIN WHICH CAN LEAD TO DERMATITIS.

ACUTE ORAL: WILL CAUSE IRRITATION AND SORNESS OF MOUTH AND THROAT. ASPIRATION INTO

THE LUNGS WHEN SWALLOWED OR VOMITED MAY CAUSE CHEMICAL PNEUMONITIS WHICH

CAN BE FATAL

INHALATION: INHALATION OF THE VAPORS MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM

ACUTE HEALTH HAZARDS: DERMATITIS, TOXIC IF INGESTED IN LARGE QUANTITIES.

CHRONIC HEALTH HAZARDS: AUDITORY SYSTEM: PROLONGED AND REPEATED EXPOSURES TO HIGH CONCENTRATIONS

HAVE RESULTED IN HEARING LOSS IN RATS, SOLVENT ABUSE AND NOISE

INTERACTION IN THE WORKPLACE MAY CAUSE HEARING LOSS. CARDIOVASCULAR SYSTEM: CHRONIC ABUSE OF SIMILAR MATERIALS HAS BEEN

ASSOCIATED WITH IRREGULAR HEART RHYTHMS AND CARDIAC ARREST.
CENTRAL NERVOUS SYSTEM: REPEATED EXPOSURE AFFECTS THE

NERVOUS SYSTEM.

KIDNEY: EFFECTS IN MALE RATS WHICH ARE NOT CONSIDERED

RELEVANT TO HUMANS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ANY DERMAL SENSITIVITY.

CARCINOGENICITY:

OSHA: NO ACGIH: NO NTP: NO IARC: 2B

OTHER:

SECTION 11 NOTES:

IRAC 2B: Possible Human Carcinogen. For the mineral spirits portion of this product.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: THIS PRODUCT IS MISCIBLE IN WATER AND TOXIC TO THE MARINE ENVIROMENT. PREVENT

LIQUID PRODUCT FROM ENTERING SEWERS OR WATERWAYS.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH NATIONAL AND LOCAL REGULATIONS.

RCRA HAZARD CLASS:

SECTION 13 NOTES:

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SECTION 14: TRANSPORT INFORMATION

US DOT HAZARD CLASS:.....PAINT FLAMMABLE LIQUID

UN-number: 1263

Proper shipping name: Paint

Sea (IMDG):

 Class:
 3

 PG:
 III

 MP:
 Yes

 EmS:
 F-E, S-E

MFAG: 1

Inland waterways: to be handled locally

Air (ICAO/IATA©

Class: 3 PG: |||

Land (RID/ADR):

Class: 3
PG: III
Primary Risk laber: 3

SECTION 14 NOTES:

NAME OF PRODUCT ULTRA GARD

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SECTION 15: REGULATORY INFORMATION

313 REPORTABLE INGREDIENTS: CUPROUS OXIDE CAS # 1317-39-1; MINERAL SPIRITS CAS# 64742-48-9;

ZINC OXIDE CAS#1314-13-2; XYLENE CAS# 1330-20-7

SECTION 15 NOTES

SECTION 16: OTHER INFORMATION

ABREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value
TWA = Time Weighted Average
PEL = Permissible Exposure Limit
STEL = Short Term Exposure Limit

Bac = Butyl Acetate
NA = Not Applicable

PREPARATION INFORMATION: HMIS Hazard Ratings Scale 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Extreme

Check with supervisor for appropriate personal protection in accordance

with rating

DISCLAIMER:

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