

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT AQUAGARD II

FILE NO.: AQUAGARD II

MSDS DATE: 4/4/2006

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AQUAGARD II

SYNONYMS:

PRODUCT CODES: AGII440-7012 (BLACK);AGII440-3160 (RED); AGII440-6130 (HORIZON BLUE); AGII440-1030 (WHITE)

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

PRODUCT USE: Water base antifouling paint for boat hulls.

PREPARED BY: Hamdi Latif

SECTION 1 NOTES: Package ID:

Black: 70001 Red: 70002 H. Blue: 70006 White: 70007

70101 70102 70106 70107

70201 70202 70206 70207

SECTION 2: 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	1.536 - 1.824	<.10	YES
(1317-3800)	0..032- 0.038	< 0.001	YES
(7440-50-8)	0.032 - 0.038	< 0.001	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: ACRYLIC COPOLYMER

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
PROPRIETARY	13.00 – 15.00	8.0 – 10.0	NO

ppm

mg/m3

OSHA PEL-TWA:

OSHA PEL STEL :

OSHA PEL CEILING:

ACGIH TLV-TWA:

ACGIH TLV STEL:

ACGIH TLV CEILING:

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS CONTINUED

INGREDIENT: ETHYLENE GLYCOL

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
107-21-1	0.5 - 1.0	.8	YES
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:		10	
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:		2	
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

INGREDIENT: PROPYLENE GLYCOL

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
57-55-6	.75 - 1.00		NO
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:		No data available	
OSHA PEL STEL :		No data available	
OSHA PEL CEILING:		No data available	
ACGIH TLV-TWA:		No data available	
ACGIH TLV STEL:		No data available	
ACGIH TLV CEILING:		No data available	

SECTION 2 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 (29CFR 1910) or ACGIH (Appendix A, Threshold limit Values for Chemical Substances 1995-1996).

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: EYES, SKIN, AND INGESTION

POTENTIAL HEALTH EFFECTS:

EYES: MAY CAUSE REDNESS, BURNING AND IRRITATION.

SKIN: MAY CAUSE IRRITATION / PROLONGED OR REPEATED CONTACT MAY CAUSE RASH OR REDNESS.

INGESTION: WILL CAUSE IRRITATION AND SORENESS OF MOUTH AND THROAT, MAY BE TOXIC.

INHALATION: NOT PROBABLE.

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

CHRONIC HEALTH HAZARDS: REPEATED OR PROLONGED CONTACT WILL CAUSE DRYING AND DEFATTING OF THE SKIN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ANY DERMAL SENSITIVITY.

CARCINOGENICITY

OSHA: NO ACGIH: NO NTP: NO IARC: NO
OTHER:

SECTION 3 NOTES:

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SECTION 4: FIRST AID MEASURES

EYES: FLUSH EYES WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS SEE A PHYSICIAN.

SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS OR RASH DEVELOPS, SEE A PHYSICIAN.

INGESTION: IF SWALLOWED, GIVE A LARGE QUANTITY OF WATER TO DRINK. CONSULT A PHYSICIAN.

INHALATION: NOT PROBABLE

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: FOR FURTHER INFORMATION CALL, CHEMTREC NUMBER IN SECTION ONE.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) NA LOWER: NA

FLASH POINT:

F: NA

C: NA

METHOD USED:

AUTOIGNITION TEMPERATURE:

F: NA

C: NA

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION: D

EXTINGUISHING MEDIA: DRY CHEMICAL/FOAM/CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES: TREAT AS LATEX PAINT (NON FLAMMABLE). FOR DRIED FILM, FIRE FIGHTERS SHOULD 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: NONE

HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC GAS GENERATION (CO₂,CO)

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: 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:

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: HANDLE AS A LATEX COATING PRODUCT CONTAINING TOXIC MATERIALS USE APPROPRIATE PERSONAL PROTECTION. STORE IN A COOL DRY AREA, PROTECT FROM FREEZING.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: NONE

VENTILATION: LOCAL

RESPIRATORY PROTECTION: USE NIOSH - APPROVED RESPIRATOR FOR CHEMICAL VAPORS.

EYE PROTECTION: SPLASH PROOF GOGGLES OR FACE SHIELD.

SKIN PROTECTION: USE LATEX OR RUBBER GLOVES, CHEMICAL APRON AND LONG SLEEVE SHIRT

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: FACILITIES USING THIS PRODUCT SHOULD BE EQUIPED WITH EYEWASH.

WORK HYGIENIC PRACTICES: WASH WELL AFTER CONTACT WITH THIS PRODUCT.

EXPOSURE GUIDELINES: SEE SECTION 1

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: VISCOUS LIQUID, VARIOUS COLORS

ODOR: TYPICAL LATEX, SLIGHT AMMONIA ODOR

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: 8.5 – 8.9

pH (Other):

BOILING POINT:

F: 212 WATER

C: 100 WATER

MELTING POINT:

NA F:

C:

FREEZING POINT:

F: 32 WATER

C: 0 WATER

VAPOR PRESSURE (mmHg):

@

F: 17mm Hg @ 68° WATER

C: 17 mm Hg @ 20° WATER

VAPOR DENSITY (AIR = 1):

@

F: <1 @ 68° WATER

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES - Continued

C: <1 @ 20° WATER
SPECIFIC GRAVITY (H₂O = 1):
1.2365 – 1.3325 @
68° F:
20° C:

EVAPORATION RATE:

B_{Ac} (=1): <1

SOLUBILITY IN WATER: DILUTABLE

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): PROTECT FROM FREEZING

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)

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: INHALATION OF CONCENTRATED VAPORS MAY IRRITATE THE RESPIRATORY SYSTEM

REPEATED OR PROLONGED SKIN CONTACT MY CAUSE IRRITATION AND DEVELOP SECONDARY ALLERGIC REACTIONS. MAY DRY OUT AND DEFAT SKIN TISSUE.

WILL CAUSE EYE IRRITATION AND REDNESS.

INGESTION MAY CAUSE VOMITING AND STOMACH PAINS.

SECTION 11 NOTES:

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:

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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:

SECTION 14: TRANSPORT INFORMATION

US DOT HAZARD CLASS:.....NOT REGULATED

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

313 REPORTABLE INGREDIENTS: This material contains the following components with known CAS numbers that exceed the De Minimus reporting levels established by SARA Title II, Section 313 and 40CFR 372

CUPROUS OXIDE CAS # 1317-39-1
ETHYLENE GLYCOLE CAS # 107-21-1

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

ABBREVIATIONS:

- 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:

The information contained herein relates only to the specific material identified. Flexabar Corporation believes that the information is accurate and reliable as of the preparation date of this material safety data sheet, but no representation, guarantee or warranty expressed or implied is made as to the accuracy, reliability or completeness of the information. Flexabar Corporation urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.