

MATERIAL SAFETY DATA SHEET

FILE NO.: FG411-4310

NAME OF PRODUCT INFLATABLE BOTTOM COATING
MSDS DATE: 12/18/2009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: INFLATABLE BOTTOM COATING

SYNONYMS:

PRODUCT CODES: FG411-4310

PART NUMBER: 90007

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 antifoulant for inflatable crafts.

PREPARED BY: Hamdi Latif

SECTION 1 NOTES:

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	26.25 - 27.00	4.0 - 5.0	YES
(1317-38-0)	0..26- 0..28	< 0.1	YES
(7440-50-8)	0..26 - 0.28	< 0.1	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>
- - - - -	19.4 - 21.0	<1%	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	0.8 - 1.0	.8	NO
	<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	0.58 - 0.62	.8	NO
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:			
OSHA PEL STEL :			
OSHA PEL CEILING:			
	No occupational exposure limits have been established for this material or it's components		
ACGIH TLV-TWA:			
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	2.0 - 2.9	.8	NO
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:			
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:			
ACGIH TLV STEL:	As a powder: 10mg/M3	As a fume: 5mg/M3	
ACGIH TLV CEILING:			

INGREDIENT: OCTYLPHENOXPOLY THOXYETHANOL (Non Ionic Surfactant)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
NA; A MIXTURE	.24 - .26	.8	NO
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:			
OSHA PEL STEL :			
OSHA PEL CEILING:			
	No occupational exposure limits have been established for this material or it's components		
ACGIH TLV-TWA:			
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS CONTINUED

INGREDIENT: MONYLPHENOXY POLY (ETHYLENOXY) ETHANOL, BRANCHED (Non Ionic Surfactant)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
NA; A MIXTURE	.24 – .26	.8	NO
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	No occupational exposure limits have been established for this material or it's components		
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:			
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

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 (29CRF 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.

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SECTION 6 NOTES:

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 EQUIPPED WITH AN EYE WASH STATION.

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: GRAY VISCOUS LIQUID

ODOR: TYPICAL LATEX, SLIGHT AMMONIA ODOR

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: 8.5 - 9.5

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

C: <1 @ 20° WATER

SPECIFIC GRAVITY (H2O = 1):

1.3733 / 1.4934 @

68° F:

20° C:

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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 SOLUBLE IN WATER AND TOXIC TO THE MARINE ENVIRONMENT. 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:

SECTION 14: TRANSPORT INFORMATION

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

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SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

313 REPORTABLE INGREDIENTS: CUPROUS OXIDE

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.