SDS Date: 10/26/2017

**Reviewed: Initial** 

SECTION 1: Identification of the preparation and of the company

#### PRODUCT NAME: ORANGE VINYLON BUOY PAINT

PRODUCT CODES: HUM-ORG HUM-ORQ

USES: Coating for marking all types of vinyl buoys Do Not Use on Polystyrene or Styrofoam buoys.

This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS).

MANUFACTURER: Flexabar Corporation ADDRESS: 1969 Rutgers Blvd. Lakewood, New Jersey USA 08701 Tel (732) 901-6500

EMERGENCY PHONE: 1-800-424-9300 CHEMTREC 24 Hour Emergency Response: 1-800-424-9300 Information: SDS Coordinator: 1-732-901-6500 FAX PHONE: 1-732-901-6504

DISTRIBUTOR: Englund Marine ADDRESS: PO Box 296 95 Hamburg St. Astoria, OR 97103 Tel (503) 325-4341

PREPARED BY: Flexabar Information Services

#### SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: GHS Classification:	Opaque liquid, typical aromatic odor Causes irritation to the skin, eyes, mucous membranes and respiratory tract. Can be absorbed through the skin causing systemic effects.
	H226 Flamable liquid and vapor H313 May be harmful in contact with skin H305 May be harmful if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H332 Harmful if inhaled H336 May cause drowsiness or dizziness H373 May cause damage to organs through prolonged or repeated exposure
GHS Label elements: Pictograms:	
Signal Word: Dan	ger
Hazard Statements:	Description
	H226 Flammable liquid and vapor H305 Harmful if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H336 May cause drowsiness and dizziness H332 Harmful if inhaled

SDS Date: 10/26/2017

### **Reviewed: Initial**

H373 May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:** 

#### Description

P210 Keep away from heat /sparks/open flames/hot surfaces-No Smoking P260 Do not breathe mist/vapors/spray P262 Do not get in eyes, on skin or on clothing P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment P280 Wear protective gloves/eye protection/face protection P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+352 IF ON SKIN: Wash with soap and water P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth P331 DO NOT induce vomiting P333+313 If skin irritation or a rash occurs: Get medical advice/attention P337 If eye irritation persists P362 Take off contaminated clothing and wash before reuse

P391 Control spillage

P403+233Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container in accordance with local/national regulations

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient/Chemical Designations	Weight %	GHS Classification		
Vinylchloride-Vinylacetate- Copolymer CAS No. 9003-22-9	11.0 – 19.0	Not Classified as Hazardous	1	
Methyl Ethyl Ketone CAS No. 78-93-3	7.0 – 10.0	FLAMMBLE LIQUID – Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) Category 3 [Narcotic effects]	1, 2	
Toluene CAS No. 108-88-3	30.0 - 40.0	FLAMABLE LIQUID – Category 2 SKIN CORROSION/IRRITATION – Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2A TOXIC TO REPRODUCTION (unborn child) – Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] – Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 2 ASPIRATION HAZARD – Category 1	1, 2	
Cyclohexanone CAS No. 108-94-1	7.0 – 12.0	FLAMMABLE LIQUIDS – Category 3 ACUTE TOXICITY, ORAL – Category 4 ACUTE TOXICITY, INHALATION – Category 4 ACUTE TOXICITY, DERMAL – Category 4 SKIN IRRITATION – Category 2 SERIOUS EYE DAMMAGE – Category 1	1, 2	

## SDS Date: 10/26/2017

#### **Reviewed: Initial** FLAMMBLE LIQUID – Category 2 Methyl Isobutyl Ketone ACUTE TOXICITY (inhalation) - category 4 **EYE IRRITATION - Category 2A** CAS Mo. 108-10-1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 3 (Resp. irritation) CARCINOGENITY – Category 2 5.0 - 10.0 1, 2

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit

[3] PBT substance or vPvb substance

#### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly	
	clean contaminated shoes.	

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyes Get medical attention immediately.
- Skin In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
- If swallowed, immediately contact Poison Control Center. DO NOT induce vomiting unless instructed to do by Ingestion Medical personnel. Never give anything by mouth to an unconscious person.

#### 4.2 Important symptoms and effects, acute and delayed

- Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and Overview nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or Fatal. Avoid contact with eyes, skin and clothing.
- Inhalation Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing Dizziness, headache or nausea.
- Eyes Causes severe eye irritation. Avoid contact with eyes.
- Skin Causes skin irritation. May be harmful if absorbed through skin.
- Ingestion Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea or drowsiness.
- **Chronic effects** Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data. Risk of cancer duration And level of exposure.

#### SECTION 5: FIRE-FIGHTING MEASURES

Conditions of flammability	Flammable in the presence of an ignition source when temperature is above the flash point
Extinguishing media	Use dry chemical powder, CO2 or alcohol resistant foam DO <b>NOT</b> use water jet.
Special protective equip.	Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full Protective gear.
Hazardous combustion products	Carbon oxides
Special information	Vapor id heavier than air and may travel long distances to a source of ignition and flash back
	Use water spray to disperse vapors and to protect personnel attempting to stop leak.
	Can react vigorously with oxidizing materials.
	Do not allow fire water contaminated with this product to enter any waterway or storm drain.

SDS Date: 10/26/2017

### **Reviewed: Initial**

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear adequate/appropriate personal protection equipment.
Emergency Procedures	Eliminate all potential sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or soil. Discharge into the environment must be avoided.
Methods of containment/cleanup	Contain liquid with dirt, sand, vermiculite or other noncombustible solids. Transfer to a metal container for disposal.

## SECTION 7: HANDLING AND STORAGE

Handling	Wear adequate personal protective equipment. Keep containers tightly closed. Avoid breathing vapors. Avoid contact with skin or eyes. Keep away from heat, spark and open flames. Ground all equipment and comply with National Electric Code.
Storage	Store in a cool, dry, well-ventilated area away from sources of ignition.
Incompatibilities	Oxidizing agents, including nitric acid and peroxides.
Suitable Packing Materials	Steel, Stainless steel (tanks/containers) Do <b>NOT</b> store in lead or synthetic containers.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS No.	Ingredient	Source	Value	
9003-22-9	Vinylchloride-Vinyl-acetate copolymer	ACGIH	None established	
9003-22-9	Particles not otherwise specified (PNOS)	ACGIH	Time weighted average = 10 mg/m3	
108-88-3	Toluene	OSHA	TWA 200ppm 8hours; CEIL 300 ppm; AMP 500PPM 10 minutes	
100-00-3	Toldene	ACGIH TLV	TWA 20 ppm 8 hours	
108-10-1	Methyl Isobutyl Ketone	OSHA	PEL 100 ppm 410 mg/m3	
		ACGIH	TLV (8 hour) 20 ppm; STEL 75 ppm	
78-93-3	Methyl Ethyl Ketone	OSHA	PEL 200 ppm 590 mg/m3	
10-93-3		ACGIH	TLV (8 hour) 200 ppm 590 mg/m3 STEL 300 ppm 885 mg/m3	
108-94-1	Cyclohexanone	Supplier TWA 10 ppm SKIN (8 hour) STEL 20 ppm SKIN (15 minutes)		

PEL = Permissible Exposure Limits

TLV = Threshold Limit Value EL = Excursion Limit

TWA = Time Weighted Average (8 hr.) STEL = Short Term Exposure Limit (15 min.) WEEL = Workplace Environmental Exposure Level

SAFETY DATA SDS Date: 10/26/2017 Exposure Controls:	SHEET (SDS) Reviewed: Initial
Respiratory	Select equipment to provide protection from the ingredients listed in section 3 of this document.
	Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor or mist levels above the applicable limits, wear appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.
Eyes	Avoid contact with eyes. Protective equipment should be selected to provide protection from the ingredients Listed in section 3 of this document. Depending on site and application method specific conditions, safety glasses, chemical goggles, and or head and face protection may be required. All equipment must be thoroughly cleaned or discarded after use.
Skin	Select equipment to provide protection from the ingredients listed in section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection May be required to prevent contact. All equipment must be thoroughly cleaned or discarded after each use.
Engineering Controls	Ensure adequate ventilation to keep exposure levels at a minimum under the specific conditions.
Other Work Practices	Emergency eye wash stations and safety showers should be available in the immediate work area. Use good Personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove exposed/spoiled clothing and wash separately before reuse. Shower after work using plenty of soap and water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Orange Viscous Liquid

ODOR: Typical Aromatic

PHYSICAL STATE: liquid

PH AS SUPPLIED: Not Measured

BOILING POINT: (MEK) 175.6<sup>0</sup> F: 79.6<sup>0</sup> C: MELTING POINT: F: Not Measured C: Not measured FREEZING POINT: F: Not measured C: Not Measured FLASH POINT: (MEK) F: -6<sup>0</sup> 21<sup>0</sup> C: VAPOR PRESSURE (mmHg): Not Measured @ F: C: VAPOR DENSITY (AIR = 1): Heavier than air @ F: C: SPECIFIC GRAVITY (H2O = 1): @ 1.0250 - 1.0254 F: 77 C: EVAPORATION RATE: NE MIXTURE BASIS (=1): SOLUBILITY IN WATER: Insoluble

## MIXTURE

SDS Date: 10/26/2017

### **Reviewed: Initial**

SECTION 10: STABILITY AND REACTIVITY	
Reactivity	Non Reactive
10.2. Chemical stability	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.
10.3. Possibility of hazardous reactions	Non Reactive
10.4. Conditions to avoid	Non Reactive
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Carbon Dioxide and Carbon Monoxide.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL INFORMATION:

Breathing large amounts of hydrocarbon/ketone solvents for short periods of time adversely effects the human nervous system, the kidneys, liver, and the heart. Repeatedly breathing large amounts of toluene as when "sniffing glue" or paint can cause permanent brain damage. Human exposure studies and animal studies suggest that exposure to large amounts of solvents during pregnancy can adversely affect the developing fetus.

Ingredient	Oral LD50 mg/kg	Dermal LD50 Inhalation Vapor mg/kg mg/l (4hr)		Eye Damage/irritation
Vinylchloride- Vinylacatate copolymer 9003-22-9	No Data Available	No Data Available	No Data Available No Data Available	
Toluene 108-88-3	5580 mg/kg Rat (male)	12267 mg/kg Rabbit	>20 Rat	Irritating Rabbit
Methyl Isobutyl Ketone 108-10-1	2000 ng/kg Rat	2000 mg/kg Rabbit	10 – 20 Rat	Irritating Rabbit
Methyl Ethyl Ketone 78-93-3	2000 ng/kg Rat	2000 mg/kg Rabbit	No Data Available	Irritating Rabbit
Cyclohexanone 108-94-1	1890mg/kg Rat	1100 mg/kg Rabbit	11	Serious Damage

All ingredient values, literature values

ltem	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation.
Eye damage/irritation	Not Classified	Not Applicable
Sensitization (respiratory)	Not Classified	Not Applicable
Sensitization (skin)	Not Classified	Not Applicable
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity	Not Classified	Not Applicable
Reproductive Toxicity	Not Classified	Not Applicable
Specific target organ systemic toxicity (single exposure)	/ Not Classified	Not Applicable
Specific target organ systemic Toxicity (repeated exposure)	Not Classified	Not Applicable

SDS Date: 10/26/2017

Aspiration hazard

**Reviewed:** Initial

Not Classified Not Applicable

## SECTION 12: ECOLOGICAL INFORMATION

Ingredient	Toxicity to fish LC50	Toxicity to invertebrates EC50	Toxicity to algae EC50	Biodegrad ation	Bioaccumulatio n	Mobility in soil
Vinylchloride- Vinylacatate copolymer 9003-22-9	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
Toluene 108-88-3	5500ug/l Oncorhynchus kisutch-Fry 96 hr.	6000 ug/l Daphnia Magna Juvenile 48 hr.	12500 ug/l Pseudokirchneriella subcapitata	Readily	Low	No Data Available
Methyl Isobutyl Ketone 108-10-1	>100 mg/l Dania rerio 96 hrs. static test	>100 mg/l Daphnia Magna Juvenile 48 hr. static test	No Data Available	Readily	None Expected	No Data Available
Methyl Ethyl Ketone 78-93-3	Pimephales Promelas >100mg/l 96 hr.	>100 mg/l Daphnia Magna Juvenile 48 hr. static test	>100 mg/l Pseudokirchneriella subcapitata 96 hr	Readily	None Expected	No Data Available
Cyclohexanone 108-94-1	Pimephales Promelas 20.2 mm – 0.127 gr. 96 hr	No Data Available	No Data Available	Readily	Low	No Data Available

All ingredient Values, literature values

Persistence and degradability Bio accumulative potential Mobility in soil Results of PBT and vPvB assessment Other adverse effects

No data available Not Measured No data available This product contains no PBT/vPvB chemicals. No data available

#### SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations. This product contains components that are RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service. Empty containers must be handled with care due to product residue.

#### SECTION 14: TRANSPORT INFORMATION

UN number UN proper shipping name Transport hazard class(es)		UN 1263 Paint		
DOT (Domestic Surface Tr	ansportation)		IMO / IMDG (Ocean Transportation)	
DOT Proper Shipping Name	CONSUMER COMMODITY, ORM-D		IMDG Proper F Shipping Name	Paint
DOT Hazard Class Not	Regulated		IMDG Hazard Class Sub Class	Flammable Liquid, 3 Not applicable
UN / NA Number UN	1263			
DOT Packing Group Not Regulated			IMDG Packing Group I I	
CERCLA/DOT RQ 696	i gal. / 5395 lbs.		System Reference Code	181
Packing group	II			
Environmental hazards				
IMDG Marine Pollutant: No				
Special precautions for user Not Applicable				

### SDS Date: 10/26/2017

Reviewed: Initial

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not Applicable

## SECTION 15: REGULATORY INFORMATION **Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory. DOT Marine Pollutants (10%): (No Product Ingredients Listed) DOT Severe Marine Pollutants (1%): (No Product Ingredients Listed) EPCRA 311/312 Chemicals and RQs (>.1%) : 108-88-3 Toluene RQ 1000 lb 108-10-1 Methyl IsoButyl Ketone RQ 5000 lb 78-93-1 Methyl Ethyl Ketone RQ 5000 lb 108-94-1 Cyclohexanone RQ 5000 lb EPCRA 302 Extremely Hazardous (>.1%) : (No Product Ingredients Listed) EPCRA 313 Toxic Chemicals (>.1%) : 108-88-3 Toluene Mass RTK Substances (>1%) : 108-88-3 Toluene 108-10-1 Methyl IsoButyl Ketone 78-93-1 Methyl Ethyl Ketone 108-94-1 Cyclohexanone Penn RTK Substances (>1%) : 108-88-3 Toluene 108-10-1 Methyl IsoButyl Ketone 78-93-1 Methyl Ethyl Ketone 108-94-1 Cyclohexanone Penn Special Hazardous Substances (>.01%) : (No Product Ingredients Listed) N.J. RTK Substances (>1%) : 108-88-3 Toluene 108-10-1 Methyl IsoButyl Ketone 78-93-1 Methyl Ethyl Ketone 108-94-1 Cyclohexanone N.J. Special Hazardous Substances (>.01%) : (No Product Ingredients Listed) N.J. Env. Hazardous Substances (>.1%) : 108-88-3 Toluene Proposition 65 - Carcinogens (>0%): 108-10-1 Methyl Iso Butyl Ketone Proposition 65 - Female Repro Toxins (>0%): (No Product Ingredients Listed Proposition 65 - Male Repro Toxins (>0%): (No Product Ingredients Listed Proposition 65 - Developmental Toxins (>0%): 108-88-3 Toluene

SDS Date: 10/26/2017

**Reviewed: Initial** 

## 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		
	NA = Not Applicable		
	NE = Not Established		
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.

#### **REVIEWED SECTIONS:**

#### DISCLAIMER:

The information contained herein is based on data provided by our suppliers and relates only to the specific material identified. Flexabar Corporation believes that the information is accurate and reliable as of the preparation date of this safety data sheet and reflects our best judgement, 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.

## END of DOCUMENT