

SAFETY DATA SHEET

NAME OF PRODUCT KRYPTON AF

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TOTALBOAT KRYPTON - RED

PRODUCT CODE: TB-3020

USES: Bottom paint for pleasure craft.
Do not use for any application other than its intended use.

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

DISTRIBUTOR: TOTALBOAT LLC
ADDRESS: 17 Peckham Dr. Bristol, Rhode Island 02809
PHONE: 1 800 497 0010
FAX: 1 401 254 5829
Emergency Phone: INFOTRAC: 1 800 535 5053
Distributor No: 89049

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

Causes irritation to the skin, eyes, mucous membranes and respiratory tract.
Can be absorbed through the skin causing systemic effects.

GHS Classification:

H326 Flammable liquid and vapor
H302 Harmful if swallowed
H313 May be Harmful in contact with skin
H315 Causes skin irritation
H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H410 Very toxic to aquatic life with long lasting effects
H332 Harmful if inhaled

GHS Label elements:

Pictograms:



Signal Word: **Danger**

H326 Flammable liquid and vapor
H302 Harmful if swallowed
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H318 Causes serious eye damage
H317 May cause an allergic skin reaction
H410 Very toxic to aquatic life with long lasting effects
H332 Harmful if inhaled

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P260 Do not breathe mist / vapors / spray.
P261 Avoid breathing dust / fume / gas / 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.
P272 Contaminated work clothing should not be allowed out of the workplace.
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.

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P302+352 IF ON SKIN: Wash with soap and water.
 P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.
 P363 Wash contaminated clothing before reuse.
 P370 In case of fire: Use water spray, fog, or regular foam..
 P391 Collect spillage
 P403+233 Store in a well ventilated place. Keep container tightly closed.
 P501 Dispose of contents / container in accordance with local / national regulations. HMIS Rating

Health: 2*

Flammability: 3

Reactivity: 0

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
4-bromo-2-4-(4-chlorophenyl)-1H-pyrrole-3-carbonitrile CAS# 122454-29-9	1.0 – 10.0	Acute Tox. Oral (2) H300 Fatal if swallowed Acute Tox. Inhalation (2) H330 Fatal if inhaled Acute Tox. Dermal (3) H311 Toxic in contact with skin Specific target organ Tox. (repeated exposure) (1) H372 Causes damage to organs through prolonged or repeated exposure Acute aquatic Tox. (1) H400 Very toxic to aquatic life Chronic aquatic Tox. (1) H410 Very toxic to aquatic life with long lasting effects	1, 2
Xylenes (mixed isomers) CAS# 1330-20-7	20.0 – 25.0	Flam. Liq. (3); Flammable liquid and vapor, H226 Acute Tox. (4); Harmful if inhaled, H332 Acute Tox. (4); Harmful in contact with skin, H312 Skin Irrit. (2); Causes skin irritation, H315 Eye Irrit. (920); Causes serious eye irritation, H319 STOT (SE) (3); May cause respiratory irritation, H335 Asp. Tox. (1); May be fatal if swallowed and enters airways, H304	1,2
Mineral Spirits (Stoddard solvent) CAS# 8052-41-3	20.0 – 25.0	Flam. Liq. (3); Flammable liquid and vapor, H226 Acute Tox. (4); Harmful if inhaled, H332 Skin Irrit. (2); Causes skin irritation, H315 Eye Irrit. (920); Causes serious eye irritation, H319 STOT (SE) (3); May cause respiratory irritation, H335 STOT (SE) (3)" Narcotic Effects STOT (RE) (2); Central nervous system (CNS) Asp. Tox. (1); May be fatal if swallowed and enters airways, H304	1, 2
Kaolin CAS# 1317-70-0	3.0 – 7.0	-----	1, 2
Zinc Oxide CAS# 1314-13-2	1.0 – 5.0	Aquatic Acute Very toxic to aquatic life, H400 Aquatic Chronic Very toxic to aquatic life with long lasting effects, H410	1, 2

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Ethylbenzene CAS# 100-41-4	4.0 – 7.0	Flam. Liq. (2); HIGHLY FLAMMABLE Liquid and Vapor, H225 Acute Tox. (4); Harmful if inhaled, H332 Asp. Tox. (1); may be fatal if swallowed and enters airways, H304 Eye Irrit. (2); Causes serious eye irritation, H319 Skin Irrit. (2); Causes skin irritation, H315 STOT (SE) (3); May cause respiratory irritation, H335 STOT (RE) (2); May cause damage to organs through prolonged or repeated contact, H373	1, 2
Pyrithione zinc CAS# 13463-41-7	2.0 – 6.0	Acute Tox. Oral (3) H300 Toxic if swallowed Acute Tox. Inhalation (3) H330 Toxic if inhaled Serious eye damage (1) H318 Causes serious eye damage Acute aquatic Tox. (1) H400 Very toxic to aquatic life Chronic aquatic Tox. (1) H410 Very toxic to aquatic life with long lasting effects	1,2

GHS Classification Scale (1 = severe; 4 = slight)
 [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

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.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.

Ingestion If swallowed, immediately contact Poison Control Center. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Important symptoms and effects, acute and delayed

Overview Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and 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 dependent on duration and level of exposure.

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SECTION 5: FIRE-FIGHTING MEASURES

CLEAR THE AREA OF ALL NON FIRE-FIGHTING PERSONAL

Extinguishing media;

CAUTION: This product has a very low flashpoint. Use of water spray when fighting fire may be inefficient.

SMALL FIRES: Use dry chemical, CO₂, water spray or alcohol-resistant foam.

LARGE FIRES: Use water spray, fog, or alcohol-resistant foam. Do not use straight streams. Move containers from fire area if you can do so without risk. Runoff from fire control may cause pollution. Dike fire control water for later disposal. Do not scatter the material.

Special hazards arising from the substance or mixture;

May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Carbon Dioxide and Carbon Monoxide.

Advice for fire-fighters;

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

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.

CALL INFOTRAC at (800)-535-5053 for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters (1000 feet).

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 **NOT** store in lead or synthetic containers

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

In the absence occupational exposure standards for this product, it is recommended that the following are adopted.

CAS #	Ingredient	Source	
1330-20-7	Xylene (mixed Isomers)	OSHA	100 ppm TWA; 435 mg/m ³ TWA; 150 ppm STEL; 655 mg/m ³ STEL
		ACGIH	100 ppm TWA; 150 ppm STEL
		NIOSH	No Established Limit
8052-41-3	Mineral Spirits (Stoddard Solvent)	OSHA	550 ppm TWA; 2900 mg/m ³ TWA
		ACGIH	100 ppm TWA
		NIOSH	350 mg/m ³ TWA; 1800mg/m ³ Ceiling (15 min); 20000 mg/m ³ IDLH
100-41-4 Eth	ylbenzene	OSHA	100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL
		ACGIH	20 ppm TWA
		NIOSH	100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STE; L800 ppm IDLH (10% LEL)
122454-29-9	4-bromo-2-4-(4-chlorophenyl)-1H-pyrrole-3-carbonitrile	J&J OEL/PBOEL HHC	0.040 mg/m ³ TWA
		This substance is classified by the supplier as being PBOEL HHC 2	
1314-13-2 Zinc	Oxide	OSHA	5 mg/m ³ TWA (fume); 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) 10 mg/m ³ STEL (fume)
		ACGIH	2 mg/m ³ TWA (respirable fraction) 10 mg/m ³ STEL (respirable fraction)
		NIOSH	5 mg/m ³ TWA (dust and fume) 10 mg/m ³ STEL (fume) 15 mg/m ³ Ceiling (dust) 500 mg/m ³ IDLH
1332-58-7 Kaolin		OSHA	PEL 5 mg/m ³ Respirable fraction; PEL 15 mg/m ³ Total dust; TWA value 10mg/m ³ Total dust; TWA value 5mg/m ³ Respirable fraction
		ACGIH	TEA value 2mg/m ³ Respirable fraction; The value is for particulate matter containing no asbestous and <1% crystalline silica
		NIOSH	No Established Limit
13463-41-7	Pyrithione zinc	J&J OEL/PBOEL HHC	2.50 mg/m ³ TWA
		This substance is classified by the supplier as being PBOEL HHC 1A	

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

Exposure Controls:

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

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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: RED VISCOUS LIQUID

ODOR: TYPICAL HYDROCARBON

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: NA

pH (Other):

BOILING POINT:

F: 280.4 (Xylene)

C: 138.0 (Xylene)

FFLASH POINT:

F: 80.6 (closed cup) (Xylene)

C: 27.0 (Closed cup) (Xylene)

MELTING POINT:

F: NA

C: NA

FREEZING POINT:

F: NA

C: NA

VAPOR PRESSURE AIR = Not measured

VAPOR DENSITY AIR = Heavier than air

SPECIFIC GRAVITY (H₂O = 1):

1.1465 @

68° F:

20° C:

EVAPORATION RATE: Not Measured

B_{Ac} (=1): .1

SOLUBILITY IN WATER: NEGLIGBLE

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fume generation can occur if improperly handled.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Carbon Dioxide and Carbon Monoxide.

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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 mg/kg	Inhalation Vapor	Eye Damage/irritation
Mineral Spirits (Stoddard Solvent) CAS# 8052-41-3	No data available	No data available	No data available	No data available
Xylene (mixed Isomers) CAS# 1330-20-7	4,299.00 Rat	1548.00 Rabbit	LC50, 20.00 mg/l 4hr	20.00 LD50, mg/l 4hr
Ethylbenzene CAS# 100-41-4	3500.00 Rat	15,433 Rabbit	LC50, 17.20 mg/l 4hr	20.00 LD50, mg/l 4hr
Pyrrithione zinc CAS# 13463-41-7	269.00 Rat	>2000 Rat >2000 Rabbit	LC50 0.83 mg/l 4hr Rat(male) LC50 1.34 mg/l 4hr Rat(female)	Corrosive to eyes (Rabbit)
Zinc Oxide CAS# 1314-13-2	>5000 Rat	No sensitizing effects known	5.7 mg/l (Rat) (4hr)	No sensitizing effects known
4-bromo-2-4-(4-chlorophenyl)-1H-pyrrole-3-carbonitrile CAS# 122454-29-9	28.7 Rat Assesment: The component is highly toxic after single ingestion	520.0 – 750.0 (Guinea pig female) Assesment: The component is toxic after single contact with skin.	LC 50, <0.51 mg/l (RAT) 4 hr.	No eye irritation (Rabbit)

All ingredient values, literature values

Item	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
Aspiration hazard	Not Classified	Not Applicable

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SECTION 12: ECOLOGICAL INFORMATION

Ingredient	Toxicity to fish LC50	Toxicity to invertebrates LC50	Toxicity to algae EC50	Biodegradation	Bioaccumulation	Mobility in soil
Xylene (mixed Isomers) CAS# 1330-20-7	19000 µg/l Lepomis macrochis (96 hr.)	Daphnia Magna-Neonate 2930 µg/l (48.0 hr.)	1000 µg/l C96 hr.)	Rapidly degradable	Not expected to bioaccumulate.	Low potential for soil adsorption
Ethylbenzene CAS# 100-41-4	Fathead minnow 0.85 mg/l (96.0 hr)	Daphnia Magna-Neonate 2930 µg/l (48.0 hr.)	1000 µg/l C96 hr.)	81% Readily biodegradable. (C.4C of the council regulation (EC) No 440/2008)	Fat head minnow 11 day 0.0348 mg/l Bioconcentration factor (BCF): 2,165 Does not bioaccumulate	No Data Available
Pyrethrin zinc CAS# 13463-41-7	Fathead minnow 0.028 mg/l	Daphnia Magna-Neonate 0.0082 mg/l	0.028 mg/l (Seleenastrum capricornutum (green Algae)) NOEC (Skeletonema costatum): 0.00046 mg/l Exposure time 120 hr	Biodegradable	Does not bioaccumulate	Adsorbs on soil
Zinc Oxide	No Data Available	No Data Available	IC50 (72h)0.21 mg/l	No Data Available	Not expected to bioaccumulate	No Data Available
4-bromo-2-(4-chlorophenyl)-1H-pyrrole-3-carbonitrile CAS# 122454-29-9	LC50(Oncorhynchus mykiss (rainbow trout)): 0.0013 mg/l 96 hr.	Daphnia Magna-Neonate 0.0015 mg/l 48 hr.	ErC50 (Pseudokirchneriella subcapitata (microalgae)): 0.012	Not readily Biodegradable in sea water	Bioconcentration factor (BCF): 3.2 Not expected to bioaccumulate	No Data Available

All ingredient Values, literature values

Persistence and degradability	No data available
Bio accumulative potential	Not Measured
Mobility in soil	No data available
Results of PBT and vPvB assessment	This product contains no PBT/vPvB chemicals.
Other adverse effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Material Disposal: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with local regulations. Do not dispose of into the environment, in drains or in watercourses. Waste product should not be allowed to contaminate soil or water.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks, fire and other ignition sources. Residues may cause an explosion hazard. Render containers unusable and offer for reclaiming or recycling.

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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: III

Land (RID/ADR):

Class: 3
PG: III
Primary Risk label: 3

SECTION 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

EPA REGISTRATION NO. 9339-33-89049

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%)

EPCRA 311/312 Chemicals and RQs (>.1%) :
Benzene, ethyl- (1000 lb final RQ; 454 kg final RQ)
Xylenes (o-, m-, p- isomers) (100 lb final RQ; 45.4 kg final RQ)

EPCRA 302 Extremely Hazardous (>.1%) :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals (>.1%) :
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)

Mass RTK Substances (>1%) :
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)
Zinc oxide

Penn RTK Substances (>1%) :
4-bromo-2-4-(4-chlorophenyl)-
1H-pyrrole-3-carbonitrile
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)
Zinc oxide

Penn Special Hazardous Substances (>.01%) : (No Product Ingredients Listed)

RCRA Status:
(No Product Ingredients Listed)

N.J. RTK Substances (> 1%)
4-bromo-2-4-(4-
chlorophenyl)-1H-pyrrole-
3-carbonitrile
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)
Zinc oxide

N.J. Special Hazardous Substances (>.01%) :
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)

N.J. Env. Hazardous Substances (>.1%) :
Benzene, ethyl-
Xylenes (o-, m-, p- isomers)

Proposition 65 - Carcinogens (>0%):
Benzene, ethyl-

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SECTION 16: OTHER INFORMATION

Use restrictions: As stated in section one of this document and on label.

SDS distribution: The information in this document should be made available to all who may handle the product.

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.

VOC Content: 4.27 lb/gal. (514 gr/l)

DISCLAIMER:

The information contained herein relates only to the specific material identified. TotalBoat LLC 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. TotalBoat LLC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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