

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TotalBoatHalcyon High Gloss Water-Based Varnish (All colors)

Product Codes: TB-7712, TB-3021

DISTRIBUTOR:
TOTALBOAT LLC

EMERGENCY PHONE: 1-800-535-5053 (INFOTRAC)

DISTRIBUTOR ADDRESS:
17 Peckham Drive
Bristol, RI 02809
800-497-0010

Product Use: Coatings
Not recommended for: No Information Available

2. HAZARD(S) IDENTIFICATION

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: \geq 2.3 < 4.0 or persistent inflammation
Eye corrosive	2	Eye Irritation: Reversible adverse effects on cornea, iris, conjunctiva, Draize score: Corneal opacity \geq 1, Iritis > 1, Redness \geq 2, Chemosis \geq 2
Reproductive toxin	1B	Presumed, Based on experimental animals

GHS Hazards

H315	Causes skin irritation
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see precautionary statements on this label)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant.

Signal Word: Danger



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
1-Methyl-2-Pyrrolidinone	872-50-4	1.00% - 5.00%

4. FIRST AID MEASURES

INHALATION:

Move victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, give oxygen trained personnel. GET IMMEDIATE MEDICAL ATTENTION.

EYES:

Move individual away from exposure. Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN:

Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

INGESTION:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂), Foam, Dry chemical, Water spray

Combustion/Explosion Hazards:

This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat.

Hazardous Combustion Products:

Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from all potential explosion hazards while extinguishing the blaze. Use water spray to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Vapors can accumulate in low areas.

Methods for Containment:

Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods for Clean-up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation.

STORAGE:

Keep from freezing. Keep container tightly closed. Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
1-Methyl-2-Pyrrolidinone 872-50-4	OSHA PEL Not Available	ACGIH TLV Not Available	TWA 10.000000 ppm USA. Workplace Environmental Exposure Levels (WEEL)

Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local ventilation may be required during certain operations.

Eye/face Protection:

Tight sealing safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection:

Gloves made of nitrile rubber. Gloves made of butyl rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Chemical resistant apron. Boots.

Respiratory Protection:

None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor/amine cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

This mixture typically exhibits the following properties under normal circumstances:

<p>Appearance: Milky White</p> <p>Odor threshold: Not Available</p> <p>Flash point: Not applicable.</p> <p>Boiling range: 212F - 396F / 100C - 202C</p> <p>Freezing point: No information available.</p> <p>Specific Gravity: 1.02</p> <p>Evaporation rate: <1 (BuAc = 1)</p> <p>Vapor Density: > 1 (Air = 1)</p> <p>Oxidizing Properties: No information available.</p> <p>Material VOC (g/L) 52.06</p> <p>Viscosity 65 - 75 KU</p> <p>Decomposition temperature: No information available.</p>	<p>Vapor Pressure: No information available.</p> <p>Explosive Properties: No information available.</p> <p>% Volume Solids 23.13</p> <p>Coating VOC (g/L) 185.38</p> <p>Partition coefficient (n-octanol/water): No information available.</p> <p>Odor: Mild Amine</p> <p>pH: 7.5-9.0</p> <p>Autoignition temperature: No information available.</p> <p>Melting point: No information available.</p> <p>Flammability Limit in Air No information available.</p> <p>Solubility: Dispersible in Water</p>
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10. REACTIVITY AND STABILITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Freezing temperatures. Contamination by those materials referred to under Incompatible materials.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons. Nitrogen oxides (NO_x). Isocyanates.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary Routes of Entry

Skin Contact, Ingestion, Inhalation, Eye contact, Skin absorption

Acute toxicity

1-Methyl-2-Pyrrolidinone

Oral LD50

4150 mg/kg (Rat)

Dermal LD50

= 2500 mg/kg (Rat)

> 5000 mg/kg (Rabbit)

Information on toxicological effects

Symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eyes

Causes serious eye irritation.

Skin

Mild skin irritant. Repeated exposure may cause skin dryness or cracking. Harmful by skin absorption.

Inhalation

Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

Ingestion

Ingestion (swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

Irritation

Irritating to eyes, respiratory system and skin.

Corrosivity

Not corrosive.

Sensitization

Not sensitizing.

Mutagenic effects

No information available.

Carcinogenicity

Not classifiable as a human carcinogen.

Reproductive Toxicity

Adverse effects on reproduction have been reported in rats after ingestion of amounts of 1-Methyl-2-Pyrrolidinone which also caused mild generalized changes in the parental animals. Fetal effects have been noted in pregnant animals exposed by ingestion, inhalation and skin contact, and occurred both in the presence and absence of maternal toxicity.

Developmental Toxicity

No information available.

Neurological Effects

No information available.

SDS for: TB-7712, TB-3021

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ(s)	Eyes, Central Vascular System (CVS), Kidney, Liver, Central nervous system (CNS), Respiratory system.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 33% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	13638 mg/kg
ATEmix (dermal)	24213 mg/kg
ATEmix (inhalation-dust/mist)	9595.9 mg/L
ATEmix (inhalation-vapor)	127 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

1-Methyl-2-Pyrrolidinone

Log Kow	-0.46
Algae	EC50 > 500 mg/L (Desmodosmus subspicatus) (72h)
Fish	LC50 = 832 mg/L (Lepomis macrochirus) (96 h) static
	LC50 = 4000 mg/L (Leuciscus idus) (96 h) static
	LC50 = 1072 mg/L (Pimephales promelas) (96 h) static
	LC50 = 1400 mg/L (Poecilia reticulata) (96 h) static
Water Flea	EC50 = 4897 mg/L 48 h

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Considerations NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

Contaminated packaging Empty remaining contents. Do not reuse empty containers. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number Not applicable.

14. TRANSPORT

DOT
Proper Shipping Name NOT REGULATED

IDG
Proper Shipping Name NOT REGULATED

MEX
Proper Shipping Name NOT REGULATED

IATA
Proper Shipping Name NOT REGULATED

IMDG/IMO
Proper Shipping Name NOT REGULATED

15. REGULATORY INFORMATION

International Inventories

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL)

Australian Inventory Status: This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances

Korean Inventory Status: This product contains one or more chemicals currently not on the Korean Chemical Substances List

Philippine Inventory: All components of this material are listed on or are exempt from the Philippine Inventory of Chemicals and Chemical Substances

Japan ENCS: This product contains one or more chemicals currently not on the Japanese Inventory of Existing and New Chemical Substances

Chinese IECS: This product contains one or more chemicals currently not on the Chinese Inventory of Existing Chemical Substances

New Zealand Inventory: This product contains one or more chemicals currently not on the New Zealand Inventory of Chemicals Not determined

US Federal Regulations

TSCA 12(b) - Export Notification:

This product does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

SARA 313

This product does not contain any components that are subject to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Clean Water Act

This product does not contain any listed substances.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

This product does not contain any listed substances.

Chemical Weapons Convention (CWC)

This product does not contain any listed substances.

State Regulations

California Proposition 65



WARNING: This product can expose you to chemicals including 1-Methyl-2-Pyrrolidinone which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65Warnings.ca.gov.

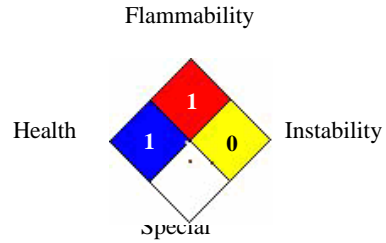
Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

HMIS & NFPA Hazard Rating Legend

- * = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH



The information set forth above is based on information which TotalBoat LLC believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and TotalBoat LLC assumes no legal responsibility for its use or reliance thereon.

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TOTALBOAT