



SAFETY DATA SHEET (GHS)

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product / Chemical Name:

BLUE BEAR® 670AF Antifouling Paint Remover

Other Means Of Identification:

Boat bottom coating remover

Recommended Use Of The Product / Chemical And Restrictions On Use:

Removal of anti-fouling paints and boat bottom paints

Manufacturer / Company Information:

Franmar Chemical, Inc.
10282 E. 1400 North Rd.
Bloomington, IL 61705
1-800-538-5069 / 1-309-828-2900

For Chemical Emergency - Spill, Leak, Fire, Exposure, or Accident Call:

CHEMTREC Day or Night: Within USA and Canada: 1-800-424-9300
CCN717946 or +1 703-527-3887 (collect calls accepted)

Health:
Flammability:
Reactivity:
Special: 0

NFPA HAZARD RATING
4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant

Section 2: HAZARD IDENTIFICATION

Classification Of Product / Chemical Mixture And Any National or Regional Information:

Eye Irritation 2A, Skin Irritant 2A, Reproductive Toxicity 1B, Acute Toxicity (Oral) 4, Respiratory Irritation 3



DANGER



DANGER

GHS Hazard Statements:

- (H315) Causes skin irritation.
- (H319) Causes serious eye irritation.
- (H335) May cause respiratory irritation or may cause drowsiness and dizziness.
- (H360) May damage fertility or the unborn child if ingested.
- (H303) May be harmful if swallowed.

GHS Precautionary Statements:

- (P102) - Keep out of reach of children
- (P103) - Read label before use
- (P340+314) - If Inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician if you feel unwell.
- (P362+P363+P337+P313) - If on skin: wash with plenty of soap and water. Take off contaminated clothing and wash contaminated clothing before reuse. If skin irritation occurs seek medical advice/attention.
- (P351+P335) If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- (P330+P331+P312) - If Swallowed: Rinse mouth. Do not induce vomiting. Call a doctor if you feel unwell.

Other Hazards Which Do Not Result In Classification:

Preexisting skin disorders generally aggravated by exposure.



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Section 3: COMPOSITION, INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent</u>
N-Methyl Pyrrolidone	872-50-4	45-52%
Dibasic Ester - LVP	627-93-0/1119-40-0	40-45%
Soy Ester	67784-80-9	2-9%
Ethoxylated Alcohol Blend	68439-46-3/66455-14-9	1-5%

Other Chemical Information:

Specific data not available.

Section 4: FIRST AID MEASURES

Necessary Measures For Routes Of Exposure:

If Inhaled:

Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician if you feel unwell.

If on Skin:

Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs seek medical advice/attention.

If in Eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If Swallowed:

Call a doctor/physician if you feel unwell.

Important Symptoms/Effects, Acute and Delayed:

Specific data not available.

Immediate Medical Attention And Special Treatment Needed:

Specific data not available.



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Section 5: FIRE FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media:

Dry chemical, CO₂, Water spray or Foam.

Hazards Arising From The Product/Chemical (e.g., nature of any hazardous combustion products):

None known.

Special Fire Fighting Procedures:

Use water spray to cool containers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Butyl rubber gloves and eye protection. If using in poorly ventilated or confined spaces, use a NIOSH approved Organic Vapor respirator.

Environmental Precautions:

Specific data not available.

Methods and Materials for Containment and Cleaning Up:

Contain the spill and hold for disposal.

Section 7: HANDLING AND STORAGE

Precautions For Safe Handling:

Keep out of reach of children. Read label before use.

Conditions For Safe Storage, Including Any Incompatibilities:

Specific data not available.



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Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters, e.g., Occupational Exposure Limit Values or Biological Limit Values:

Specific data not available.

Appropriate Engineering Controls:

Not required. Mechanical generally sufficient.

Individual Protective Measures, Such As Personal Protective Equipment:

Neoprene or equivalent gloves, chemical goggles. Avoid eye and skin contact.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Gold/Yellow color, heavy viscosity liquid	Flammability (solid, gas):	1
Odor:	Mild odor	Upper/Lower Flammability or Explosive Limits:	N/A
Odor Threshold:	N/A	Vapor Pressure:	< .5 mmHg @ 20°C
pH:	8.1	Vapor Density:	N/A
Freezing / Melting Point:	Below 32°F	Relative Density:	N/A
Boiling Point and Boiling Range:	Above 300°F	Partition Coefficient (n-octanol/water):	N/A
Flash Point:	Above 200°F (PMcc)	Autoignition Temperature:	> 500°F
Evaporation Rate:	Less than 1 (n-butyl acetate=1)	Decomposition Temperature:	N/A
Solubility:	Emulsifiable	VOC:	49.5%, 578.96 g/L, 4.84 lbs/gal



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Section 10: STABILITY AND REACTIVITY

Chemical Stability:

Stable

Possibility Of Hazardous Reactions:

Will not occur.

Conditions To Avoid (*e.g., static discharge, shock or vibration*):

Strong oxidizing agents.

Incompatible Materials:

Specific data not available.

Hazardous Decomposition Products:

Produces carbon monoxide and carbon dioxide on combustion.

Section 11: TOXICOLOGICAL INFORMATION

Information On The Likely Routes Of Exposure (*inhalation, ingestion, skin and eye contact*):

SKIN: (H315) Causes skin irritation.

EYE: (H319) Causes serious eye irritation.

INHALATION: (H335) May cause respiratory irritation or may cause drowsiness and dizziness.

INGESTION: (H302) May be harmful if swallowed.

(H360) May damage fertility or the unborn child if ingested.

Symptoms Related To The Physical, Chemical and Toxicological Characteristics:

This product contains a chemical (N-Methyl-2-Pyrrolidone) known to the state of California to cause birth defects or other reproductive harm.

Temporary blurred vision has been reported with inhalation, skin and eye contact.



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Delayed and Immediate Effects and Also Chronic Effects From Short- and Long-Term Exposure:

Results from a number of long-term carcinogenicity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic.

Numerical Measures Of Toxicity (such as acute toxicity estimates):

Oral: LD50/mouse: 5,270 mg/kg. Slightly toxic.

Inhalation: LC50/rat: >5.1 mg/L / 4h.

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Dermal: LD50/rabbit: 4,000 - 8,000 mg/kg. Moderately Toxic.

Eye irritation: rabbit: Irritant. (Vendor-Test)

Sensitization: Skin sensitizing effects were not observed in animal studies. Literature data.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):

Acute and prolonged toxicity to fish: golden orfe/LC50 (96 h): >500 mg/L

Acute toxicity to aquatic invertebrates: Daphnia magna/EC50 (24 h): >1,000 mg/l

Toxicity to aquatic plants: green algae/EC50 (72 h): >500 mg/L

Toxicity to microorganisms: OECD Guideline 209 bacterium/EC20 (30 min): >600 mg/L

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and Degradability:

Chemical oxygen demand (COD): 1,600 mg/L

Biochemical oxygen demand (BOD): Incubation period 5 d: <2 mg/g

Absorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.

Bioaccumulative Potential:

Biodegradation:

Test method: OECD 301 E/92/69/EEC, C.4-B

Method of analysis: DOC reduction

Degree of elimination: >90%

Evaluation: Readily biodegradable.

Mobility In Soil:

Not Determined

Other Adverse Effects:

Not Determined



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Section 13: DISPOSAL CONSIDERATIONS

Description Of Waste Residues and Information On Their Safe Handling and Methods Of Disposal, Including The Disposal Of Any Contaminated Packaging:

Dispose of in accordance with all existing local, state, and federal ordinances.

Section 14: TRANSPORT INFORMATION

UN Number:

Non-Hazardous

UN Proper Shipping Name:

Not regulated

Transport Hazard Class(es):

Not classified as dangerous

Packing Group (if applicable):

Not classified as dangerous

Marine Pollutant (Yes/No):

Specific data not available.

Special Precautions Which User Needs To Be Aware Of / Or Comply With In Connection With Transport Or Conveyance Either Within Or Outside Their Premises:

Specific data not available.

Section 15: REGULATORY INFORMATION

SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

SARA 313

This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313 and 40 CFR 372: N-Methyl-Pyrrolidone (40%-45%) CAS# 872-50-4. This product may contain trace amounts of 1,4-Dioxane (<= .1%) CAS# 123-91-1

The components of all Franmar products are reported in the TSCA inventory

Section 16: OTHER INFORMATION

State Reporting

This product can expose you to chemicals including N-Methyl Pyrrolidone, 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

872-50-4 N-Methyl Pyrrolidone (December 11, 2009)

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

872-50-4 N-Methyl Pyrrolidone 50-0-0 Formaldehyde