



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Antimicrobials Division (7510P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

**EPA Reg. Number:**  
 2568-106

**Date of Issuance:**  
 3/1/22

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
 (under FIFRA, as amended)

**Term of Issuance:**  
 Conditional

**Name of Pesticide Product:**  
 SEAFORCE SHIELD SP

**Name and Address of Registrant (include ZIP Code):**

Jennifer Brandon  
 Jotun Paints, Inc.  
 c/o Delta Analytical Corp.  
 12510 Prosperity Drive, Suite 160  
 Silver Spring, MD 20904

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

**Signature of Approving Official:**

*E. Miederhoff*  
 Eric Miederhoff  
 Product Manager 31  
 Regulatory Management Branch I  
 Antimicrobials Division (7510P)  
 Office of Pesticide Programs

**Date:**

3/1/22

2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Cuprous Oxide GDCI-025601-1257

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 2568-106.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 03/01/2021
- Alternate CSF 1 dated 03/01/2021
- Alternate CSF 2 dated 03/01/2021
- Alternate CSF 3 dated 03/01/2021
- Alternate CSF 4 dated 03/01/2021
- Alternate CSF 5 dated 03/01/2021
- Alternate CSF 6 dated 03/01/2021
- Alternate CSF 7 dated 03/01/2021

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Action Case No. 00301929

The Alternate Brand Name “Royal XTR” had been added to the Agency database.

If you have any questions, please contact Melanie Bolden by phone at (202) 566-0674, or via email at [Bolden.Melanie@epa.gov](mailto:Bolden.Melanie@epa.gov).

Enclosure

# SEAFORCE SHIELD SP

[LIGHT RED] [DARK RED] [ BLUE] [BLACK]  
[Alternate Brand Name: Royal XTR]

ACTIVE INGREDIENTS:  
CUPROUS OXIDE.....35%\*  
OTHER INGREDIENTS.....65%\*\*  
TOTAL: .....100%

\* METALLIC COPPER EQUIVALENT: 31.03%

\*\* CONTAINS PETROLEUM DISTILLATES, XYLENE, OR XYLENE RANGE AROMATIC SOLVENTS.

## KEEP OUT OF REACH OF CHILDREN WARNING

FOR COMMERCIAL USE ONLY

*Only For Use On Vessels Greater Than 25 Meters (82 Feet) In Length.*

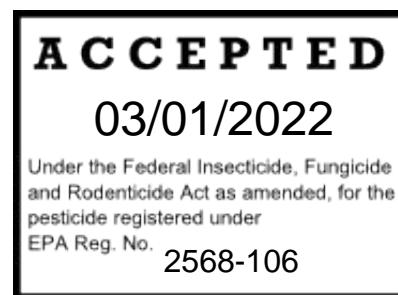
[NOT SOLD FOR USE IN AIR POLLUTION REGULATION AREAS.]  
[PHOTOCHEMICALLY REACTIVE PER RULE 102]

SEE SIDE [BACK] PANEL FOR FIRST AID AND ADDITIONAL PRECAUTIONARY  
STATEMENTS

EPA Reg. No. 2568-  
EPA Est. No. 2568-LA-001

JOTUN PAINTS, INC.  
9203 HIGHWAY 23  
BELLE CHASSE, LA 70037

NET \_\_\_\_\_



<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.
<b>IF SWALLOWED:</b>	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
<b>IF INHALED:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or a doctor for further treatment advice.
<b>Note to Physician:</b> Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. MEDICAL EMERGENCY NUMBER: 1-800-424-9300	

*[First Aid may be in paragraph form]*

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING.** Causes skin irritation. Do not get on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)** Mixers, loaders, applicators, and other handlers must wear the following: disposable Tyvek hooded coveralls, or exact equivalent; coveralls or long-sleeved shirt, long pants, and socks beneath the Tyvek hooded coverall, protective eyewear, chemically-resistant gloves that are disposable (Barrier Laminate or Butyl Rubber or Nitrile Rubber or Neoprene Rubber or Natural Rubber or Polyethylene or Polyvinyl Chloride or Viton), and chemically-resistant footwear that protects the lower leg. Remove contaminated clothing and discard after use. Do not reuse.

When used in enclosed areas, spraying paint or sanding boat surface wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

**USER SAFETY RECOMMENDATIONS:**

WASH THE OUTSIDE OF GLOVES BEFORE REMOVING

**APPLICATION / ENTRY** Do not apply this product in a way that will expose workers or other persons, either directly or through drift. Only protected handlers may be in area during application. Do not enter or allow others to enter until sprays have dried.

### ENVIRONMENTAL HAZARDS

This material is toxic to fish and aquatic invertebrates. Do not apply directly to water by cleaning of equipment or disposal of wastes. Do not allow chips and dust generated during paint removal to enter water. Dispose of paint debris in an approved landfill. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans and other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or regional office of the EPA.

### PHYSICAL OR CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Keep the container in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container Handling:** *Non-Refillable Container.* Do not reuse or refill this container. Prior to container disposal, allow any remaining paint residue in the container to air dry. Dispose of the container in accordance with Federal, State, or Local disposal regulations.

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Only For Use on Vessels Greater Than 25 Meters (82 Feet) In Length.

## **ANTIFOULING FOR UNDERWATER HULLS**

To control the attachment of marine fouling, i.e., barnacles, grass, algae, tube worms, mussels, and snails on hulls of boats and vessels in salt, brackish and freshwater which would sustain such growth. Suitable on aluminum and carbon steel substrates. A minimum of two coats of this product is recommended for best performance.

## **SURFACE PREPARATION**

Before application of antifouling, all surfaces must be dry and cleaned of dirt, dust, oil, rust, loose paint, salt residues and other contaminants. Steel must be coated with a suitable primer or anti-corrosive barrier coats.

## **MIXING**

Before use, power mix or box the paint until the product is uniform. Stir the paint at intervals during application to maintain uniformity.

## **APPLICATION**

Apply by brush, roller, or airless spray. For brush and roller, care must be taken to achieve the specified dry film thickness. For airless spray, the following is suggested: NOZZLE TIP (INCH/100) = 21-31; PRESSURE AT NOZZLE (MINIMUM) =150 BAR / 2100 PSI.

## **THINNING**

Normally no thinning is required. Where thinning is necessary use Jotun Thinner 7.

## **DRY TIME**

At 70°F and 50% R.H. allow at least 7 hours dry time between coats, and a minimum of 10 hours before immersion.

Refer to the technical data sheet for additional application details and the safety data sheet for further safety and handling information.

THE VOC OF THIS PAINT IS 385 GRAMS/LITER (3.21 LBS./GAL)

BATCH \_\_\_\_\_

D.O.T. SHIPPING NAME: PAINT

D.O.T. HAZARD CLASS: FLAMMABLE LIQUID

HAZARD ID NO.: UN1263

*[Information in brackets is optional or instructional]*

2/16/22

# **COLLATERAL LABELING**



## SeaForce Shield SP

### Product description

This is a one component high solids hydrolysing antifouling coating based on ion exchange technology. It provides cost efficient fouling protection. This is achieved by self polishing characteristics reducing hull deterioration. To be used as finish coat in immersed environments only. Suitable on approved primers and tie coats on aluminum and carbon steel substrates. It can be applied at sub zero surface temperatures.

### Typical use

Marine:

Recommended for underwater hull in newbuilding and drydocking. Designed for vessels painted in North America, trading at a wide range of speed and activity levels. The product can be used for long service periods up to 60 months as a part of a complete coating system.

### Typical trade

Suitable for vessels operating in coastal as well as deep sea trade.

### Approvals and certificates

Compliant with IMO Antifouling System Convention AFS/CONF/26.

Additional certificates and approvals may be available on request.

### Colors

light red, dark red, black, blue

## Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	58 ± 2 %
Flash point	ISO 3679 Method 1	27 °C
Density	calculated	1.8 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	385 g/l
VOC-EU	IED (2010/75/EU) (theoretical)	385 g/l

The provided data is typical for factory produced products, subject to slight variation depending on color.

## Film thickness per coat

### Typical recommended specification range

Dry film thickness	75 - 175	µm
Wet film thickness	130 - 300	µm
Theoretical spreading rate	7.7 - 3.3	m <sup>2</sup> /l

## Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition.	New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition.
	Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 2900 psi (200 bar).	Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 4930 psi (340 bar).

## Application

### Application methods

The product can be applied by

Spray:	Use airless spray.
Brush:	May be used. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used. Care must be taken to achieve the specified dry film thickness.

## Product mixing

Single pack

## Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 7

## Guiding data for airless spray

Nozzle tip (inch/1000): 21-31  
Pressure at nozzle (minimum): 150 bar/2100 psi

## Drying and Curing time

Substrate temperature	-10 °C	0 °C	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	5 h	3 h	1 h	45 min	30 min	30 min
Dried to over coat, minimum	48 h	36 h	12 h	9 h	7 h	6 h
Dried/cured for immersion	48 h	36 h	12 h	12 h	10 h	8 h

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85%, and at the typical DFT for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

## Recommended type of primer

Anticorrosive primer system suitable for purpose. Recommended tie coat for the subsequent antifouling coat is:  
Safeguard Universal ES  
or  
Safeguard Plus

## Packaging (typical)

	Volume (liters)	Size of containers (liters)
SeaForce Shield SP	20	20

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 73°F (23 °C)

SeaForce Shield SP 18 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

## Note

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

## Color variation

When applicable, products primarily meant for use as primers or antifouling may have slight color variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom)

# Technical Data Sheet

## SeaForce Shield SP



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version will prevail.

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