



## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** 431A899  
**Product Name:** FLUROPON BONE WHITE  
**Product Use:** Paint product.  
**Print date:** 11/Oct/2008  
**Revision Date:** 09/Oct/2008

#### Company Identification

The Valspar Corporation  
1101 Third Street South  
Minneapolis, MN 55415

**Manufacturer's Phone:** 1-612-332-7371

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

- Causes eye burns.
- Causes serious eye damage.

#### Skin Contact:

- Causes skin irritation.
- Dermatitis
- May cause defatting of the skin.
- Harmful if absorbed through skin.
- May cause sensitization by skin contact.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.

- May cause damage to nasal and respiratory passages.
- May cause pulmonary edema.
- May cause sensitization by inhalation.

**Target Organ and Other Health Effects:**

- Kidney injury may occur.
- Causes headache, drowsiness or other effects to the central nervous system.
- Blood disorders
- Liver injury may occur.
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

- Notice: 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.
- Prolonged exposure over TLV may produce pneumoconiosis.
- Contains formaldehyde which is considered a potential carcinogen by the Occupational Health and Safety Administration.

**Teratogens:**

- May cause birth defects.

**Carcinogens:**

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Suspect cancer hazard. Contains material which may cause cancer.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
ISOPHORONE 78-59-1	15 - 20	Isophorone
TITANIUM DIOXIDE 13463-67-7	15 - 20	Titanium dioxide
PROPYLENE GLYCOL MONO METHYL ETHER ACETATE 108-65-6	5 - 10	2-methoxy-1-methylethyl acetate
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2	5 - 10	Ethylene glycol, monobutyl ether acetate
DIMETHYL PHTHALATE 131-11-3	1 - 5	Dimethyl phthalate
DIETHYLENE GLYCOL BUTYL ETHER 112-34-5	1 - 5	Diethylene glycol monobutyl ether
TOLUENE 108-88-3	1 - 5	Toluene
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene
FORMALDEHYDE 50-00-0	0 - .099	Formaldehyde

If this section is blank there are no hazardous components per OSHA guidelines.

## 4. FIRST AID MEASURES

### Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	83°F (28°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

### Unusual fire and explosion hazards:

None known.

### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

## 7. HANDLING AND STORAGE

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### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
ISOPHORONE 78-59-1	15 - 20	140 mg/m <sup>3</sup> 25 ppm		
TITANIUM DIOXIDE 13463-67-7	15 - 20	15 mg/m <sup>3</sup> Total dust.		
DIMETHYL PHTHALATE 131-11-3	1 - 5	5 mg/m <sup>3</sup>		
TOLUENE 108-88-3	1 - 5	200 ppm	300 ppm	
PROPRIETARY INERT	1 - 5	5 mg/m <sup>3</sup> Respirable fraction. 15 mg/m <sup>3</sup> Total dust. Respirable fraction. Listed. Total dust. Listed.		
ETHYLBENZENE 100-41-4	.1 - 1	435 mg/m <sup>3</sup> 100 ppm		

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
FORMALDEHYDE 50-00-0	0 - .099	0.75 ppm		

#### ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
ISOPHORONE 78-59-1	15 - 20			5 ppm	
TITANIUM DIOXIDE 13463-67-7	15 - 20	10 mg/m <sup>3</sup>			
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2	5 - 10	20 ppm			
DIMETHYL PHTHALATE 131-11-3	1 - 5	5 mg/m <sup>3</sup>			
TOLUENE 108-88-3	1 - 5	50 ppm			Can be absorbed through the skin.
PROPRIETARY INERT	1 - 5	10 mg/m <sup>3</sup>			
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm	125 ppm		
FORMALDEHYDE 50-00-0	0 - .099			0.3 ppm	

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	22.556391 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	6.69
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	11.2
Specific Gravity:	1.34
Evaporation rate (butyl acetate = 1.0):	2.24
Flash point (Fahrenheit):	83°F (28°C)
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -°F (°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Halogenated compounds Metal oxide fumes.

## 10. STABILITY AND REACTIVITY

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
ISOPHORONE 78-59-1	15 - 20	Oral LD50 Rat : 1870 mg/kg Oral LD50 Mouse : 2690 mg/kg Dermal LD50 Rabbit : 1500 uL/kg
PROPYLENE GLYCOL MONO METHYL ETHER ACETATE 108-65-6	5 - 10	Oral LD50 Rat : 8532 mg/kg Dermal LD50 Rabbit : >5 gm/kg
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2	5 - 10	Oral LD50 Rat : 2400 mg/kg Oral LD50 Mouse : 3200 mg/kg Dermal LD50 Rabbit : 1500 mg/kg
DIMETHYL PHTHALATE 131-11-3	1 - 5	Oral LD50 Rat : 6800 mg/kg Oral LD50 Mouse : 6800 mg/kg Dermal LD50 Rabbit : >20 mL/kg
DIETHYLENE GLYCOL BUTYL ETHER 112-34-5	1 - 5	Oral LD50 Rat : 5660 mg/kg Oral LD50 Mouse : 2400 mg/kg Dermal LD50 Rabbit : 2700 mg/kg
TOLUENE 108-88-3	1 - 5	Inhalation LC50 Rat : 49 gm/m <sup>3</sup> /4H Inhalation LC50 Mouse : 400 ppm/24H Oral LD50 Rat : 636 mg/kg Dermal LD50 Rabbit : 14100 uL/kg
ETHYLBENZENE 100-41-4	.1 - 1	Oral LD50 Rat : 3500 mg/kg Dermal LD50 Rabbit : 17800 uL/kg
FORMALDEHYDE 50-00-0	0 - .099	Inhalation LC50 Rat : 203 mg/m <sup>3</sup> Inhalation LC50 Mouse : 454 mg/m <sup>3</sup> /4H Oral LD50 Rat : 100 mg/kg Oral LD50 Mouse : 42 mg/kg Dermal LD50 Rabbit : 270 uL/kg

### Mutagens/Teratogens/Carcinogens:

May cause birth defects.

Possible cancer hazard. Contains material which may cause cancer based on animal data. Suspect cancer hazard.  
Contains material which may cause cancer.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO<sub>2</sub> which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO<sub>2</sub> provide an adequate basis to conclude TIO<sub>2</sub> is carcinogenic. TIO<sub>2</sub> is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
TOLUENE 108-88-3	1 - 5	Listed: January 1, 1991 Developmental toxin.	

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen

ETHYLBENZENE 100-41-4	.1 - 1		Listed: June 11, 2004 Carcinogenic.
FORMALDEHYDE 50-00-0	0 - .099		Listed: January 1, 1988 Carcinogenic.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	15 - 20			2B Possible Carcinogen
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77, 2000
FORMALDEHYDE 50-00-0	0 - .099	MONOGRAPH 62, 1995		

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
TOLUENE 108-88-3	1 - 5			MALE RAT - NO EVIDENCE; FEMALE RAT - NO EVIDENCE; MALE MICE - NO EVIDENCE; FEMALE MICE - NO EVIDENCE.
ETHYLBENZENE 100-41-4	.1 - 1			male rat-clear evidence; female rat-some evidence; male mice- some evidence; female mice-some evidence
FORMALDEHYDE 50-00-0	0 - .099		Anticipated carcinogen.	

Ingredient Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
ISOPHORONE 78-59-1	15 - 20			Group A3 Confirmed animal carcinogen with unknown relevance to humans.
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2	5 - 10			Group A3 Confirmed animal carcinogen with unknown relevance to humans.
ETHYLBENZENE 100-41-4	.1 - 1			Group A3 Confirmed animal carcinogen with unknown relevance to humans.
FORMALDEHYDE 50-00-0	0 - .099		Potential cancer hazard.	Group A2 Suspected human carcinogen.

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

### U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

### International Air Transport Association (IATA):

Proper Shipping Name: Paint  
 Hazard Class: 3  
 UN ID Number: UN1263  
 Packing Group: III

### International Maritime Organization (IMO):

Proper Shipping Name: PAINT  
 Hazard Class: 3  
 Non-Bulk UN ID Number: UN1263  
 Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
ISOPHORONE 78-59-1	15 - 20			5000
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2	5 - 10		YES	
DIMETHYL PHTHALATE 131-11-3	1 - 5		form R reporting required for 1.0% de minimis concentration	5000
DIETHYLENE GLYCOL BUTYL ETHER 112-34-5	1 - 5		YES	
TOLUENE 108-88-3	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
ETHYLBENZENE 100-41-4	.1 - 1		form R reporting required for 1.0% de minimis concentration	1000
FORMALDEHYDE 50-00-0	0 - .099	Listed.	form R reporting required for 0.1% de minimis concentration	100

### SARA 311/312 Hazard Class:

Acute: yes  
 Chronic: yes



Flammability: yes  
Reactivity: no  
Sudden Pressure: no

## U.S. STATE REGULATIONS:

### Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

### Pennsylvania Right To Know:

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	112-07-2
PROPYLENE GLYCOL MONO METHYL ETHER ACETATE	108-65-6
TOLUENE	108-88-3
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
DIMETHYL PHTHALATE	131-11-3
ISOPHORONE	78-59-1
C.I. PIGMENT BLACK 28	68186-91-4

### Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

### California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Rule 66 status of product

Photochemically reactive.

## INTERNATIONAL REGULATIONS - Chemical Inventories

### US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

### Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

## 16. OTHER INFORMATION

### HMIS Codes

Health:	3*
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

**Preparation Information:**

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