



Fire Protection for Single-Family Applications

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A World Without Catastrophic Fire

Single-Family Product Information

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ProTEKtor IID®

Technical Data Sheet

Intumescent Latex Paint

/02

Intended Uses:

- 01 A fire-resistant and preserving inorganic borate designed for use
02 with dimensional lumber to reduce flame spread, smoke
development, and deterioration of wood.

03 Product Description:

- 04 An inorganic borate solution with termiticide, insecticide, fungicide,
and fire resistant properties.

Date of Issue:

January 21, 2021

| Technical Information | |
|---|--|
| Finish: Clear | Standard Colours: Green or Blue |
| Tint Range: N/A | Secondary Colours: N/A |
| Required Coverage: 15 grams / ft ² | Typical Volume Solids: 10% |
| Recommended # of Coats: 1 at recommended coverage | Typical Specific Gravity: 1.1 |
| Flash Point: N/A | Application Thinner: DO NOT THIN |
| Clean Up: Warm to hot water | |

Flame Spread Index: 20 (CAN/ULC S102)

Smoke Development Index: 10 (CAN/ULC S102)

Surface Preparation

Surfaces must be clean, dry, and free of dust and other debris. Remove any loose substrate pieces (i.e. wood, peeling paint). When treating bare wood surfaces with the intent of fire protection, no priming is required.

Application

Brush, roller, or suitable heavy-duty airless sprayer. (Recommended tips are .20-.30 inches.)

Dry times at 21°C and 50% (+ or – 10) R.H.

To Touch: 45 minutes – 2 hours

To Handle: 3 – 5 hours

To Overcoat: 6 hours minimum

Additional Data

For optimum adhesion and application performance, ensure that the temperature and relative humidity are between 15 and 25°C and 40-60% respectively, at the time of application and for four hours afterward.

The information provided is accurate and true to the best of our knowledge. However, no guarantee or warranty of any kind, expressed or implied, is given when the product is not applied by certified BarrierTek Inc. installers.

ProTEKtor IID®

Safety Data Sheet

/02

01

02

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04

01

Identification

Product Name: ProTEKtor IID®

Product Code: -----

Product Use: Fire Retardant

Manufacturer's Name: **Genics Inc.**

561 Acheson Rd. 53016 Hwy 60

Acheson, AB, Canada T7X 5A7

BarrierTek Phone: (780) 612- 7740

Emergency Phone: In case of hazardous materials or dangerous goods incident, spill, leak, fire, exposure, or accident, call CHEMTREC 24 hours at 1-800-242-9300 or 1-703-527-3887.

SDS Preparation Date: January 2021

Hazard Identification

Toxicological Properties

Emergency Overview:

ProTEKtor IID® is a clear or dyed (blue, green or orange), odorless liquid that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity.

Potential Ecological Effects:

Large amounts of ProTEKtor IID® can be harmful to plants and other species. Therefore, releases into the environment should be minimized.

Routes of Exposure**Inhalation:**

Occasional mild irritation to nose and throat may occur from inhalation of ProTEKtor IID®. Avoid producing very fine mists.

Eye Contact:

ProTEKtor IID® is non-irritating to eyes in normal use.

Skin Contact:

ProTEKtor IID® does not cause irritation to intact skin. Dermal exposure is not a concern because ProTEKtor IID® is poorly absorbed through intact skin.

Ingestion:

Products containing ProTEKtor IID® are not intended for ingestion. ProTEKtor IID® has a low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than one teaspoon may cause gastrointestinal symptoms.

Cancer:

ProTEKtor IID® is not a known carcinogen.

| | | |
|--|---|-----------|
| Signs and Symptoms of Exposure: | Symptoms of accidental overexposure to ProTEKtor IID® might include nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling. | 01 |
| | These symptoms have been associated with the accidental overexposure to the chemically-related substance boric acid by ingestion or absorption through large areas of damaged skin. | 02 |
| | | 03 |
| | | 04 |

Refer to Section 11 for details on toxicological data.

03

Composition / Information on Ingredients

| Ingredients | CAS # | % Percent (by weight) | Hazard Classification |
|----------------------------------|------------|-----------------------|-----------------------|
| Disodium Octaborate Tetrahydrate | 12290-03-4 | 8-12 | - |

First Aid

| | |
|--------------------------|---|
| Eye Contact: | Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention. |
| Skin Contact: | No treatment is necessary because product is non-irritating. |
| Inhalation: | If symptoms such as nose or throat irritation are observed, move to a well-ventilated area. |
| Ingestion: | Swallowing small quantities (one teaspoon) will not harm healthy adults. If larger amounts are swallowed, drink two glasses of water and seek medical attention. Note to physicians: Observation only is required for adult ingestion. |
| General Guidance: | Observation only is required for adult ingestion in the range of one teaspoon of ProTEKtor IID®. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment. Refer to Section 11 for details. |

05

01

Fire-Fighting Measures

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General Hazard: None, because ProTEKtor IID® is not flammable

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Flammability classification (29 CFR 1910.1200): Not combustible or explosive.
The product is itself a flame retardant.

Extinguishing Media : Any fire extinguishing media may be used on nearby fires.

06

Accidental Release Measures

General: ProTEKtor IID® is a clear or dyed (blue, green, or orange) liquid that may, at high concentrations, cause damage to trees or vegetation by root absorption. (Refer to Ecological information, Section 12, for specific information.)

Land Spill: Absorb ProTEKtor IID® with hydrophilic absorbent and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during cleanup and disposal.

Spillage Into Water:

Where possible, remove any intact containers from the water. Advise local water authorities that none of the affected water should be used for irrigation or as potable water until natural dilution returns the boron value to its normal environmental background level. (Refer to Sections 12, 13, and 15 for additional information.)

01**02****03****04****Additional Notes:**

ProTEKtor IID® is a non-hazardous waste when spilled or disposed of, as defined in the Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261). (Refer to Regulatory information, Section 15, for additional references.)

07

Handling and Storage Procedures

Work and Hygiene Practices:

If during use of this product, dusts or particulates are generated, avoid breathing, and avoid skin or eye contact. Use ventilation and other engineering controls to minimize creation and exposure to dusts generated by this product.

Storage and Handling Practices:

Store this product in properly labeled, closed containers in a cool, dry location away from sources of intense heat. Store away from incompatible materials. (See Stability and Reactivity).

| | | |
|-----------------------------|--|-----------|
| Protective Practices | Follow practices indicated in Accidental Release | 01 |
| Ensuring Maintenance | Measures. Make certain that application | 02 |
| of Contaminated | equipment is locked and tagged-out safely, as | 03 |
| Equipment: | necessary. | 04 |
| General | | |
| Storage | Dry, indoor storage between 5°C and 35°C is | |
| Temperature: | recommended. Ambient recommended. Keep | |
| | containers tightly closed. | |
| Storage | Atmospheric | |
| Pressure: | | |

08

Exposure Controls: Personal Protection

| | |
|------------------------------|---------------------------------|
| Engineering Control: | N/A |
| Control Factor: | N/A |
| Personal Respirators: | N/A |
| Skin Protection: | Wear protective gloves. |
| Eye Protection: | Wear safety glasses or goggles. |

09

01

Physical and Chemical Properties

02

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| | |
|--------------------------|---|
| Colour: | Green or Blue |
| Odor: | N/A |
| Safety Data: | Flash Point: N/A Ignition temperature: N/A Self-ignition temperature: N/A Lower explosion limit: N/A Upper explosion limit: N/A |
| Solubility: | Water miscible |
| Specific Gravity: | 1.1g/mL |
| Vapour Pressure: | Negligible at 20°C |
| pH @ 20°C: | 7.6 (10.0% solution) |

04

10

Stability and Reactivity

| | |
|--|--|
| Stability: | Stable under ordinary conditions of use and storage. |
| Incompatibilities: | Organic solvent |
| Materials to Avoid: | Strong acid or alkali and oxidant |
| Hazardous Decomposition Products: | Boron compounds produced |

Toxicological Information

| | | |
|-------------------------|--|-----------|
| Acute Toxicity: | Low acute oral toxicity; LD50 in rats is > 20,000 mg/kg of body weight. | 04 |
| Ingestion: | | |
| Skin/Dermal: | Low acute dermal toxicity; LD50 in rabbits is greater than 20,000 mg/kg of body weight. ProTEKtor IID® is poorly absorbed through intact skin. | |
| Skin irritation: | Non-irritant | |
| Eye irritation: | Draize test in rabbits produced mild eye irritation effects. Years of occupational exposure to ProTEKtor IID® indicates no adverse effects on the human eye; therefore ProTEKtor IID® is not considered to be a human-eye irritant in normal industrial use. | |
| Sensitization: | ProTEKtor IID® not a skin sensitizer. | |
| Human Data: | Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dusts and sodium borate dusts. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility. | |
| Carcinogenicity: | Anhydrous Disodium Octaborate is not found in the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA, and therefore is NOT considered to be, or suspected to be, a cancer-causing agent by these agencies. | |

| | | |
|---|--|------------------------|
| Irritancy of Product: | Dusts generated by this product may be mildly irritating to contaminated tissues. | 01 |
| Sensitization of Product: | The product is not reported to cause sensitization effects in humans after prolonged or repeated exposures. | 02 03 |
| Reproductive Toxicity Information: | <p>Listed below is information concerning the effects of this product and its components on the human reproductive systems.</p> <p>Mutagenicity: This product is not reported to produce mutagenic effects in humans.</p> <p>Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.</p> <p>Teratogenicity: This product is not reported to cause teratogenic effects in humans.</p> <p>Reproductive Effects: This product is not reported to cause reproductive effects in humans.</p> | 04 |
| ACGIH Biological Exposure Indices (Beis): | Currently, there are no ACGIH Biological Exposure Indices associated with the components of this product. | |
| Medical Conditions Aggravated by Exposure: | Skin disorders may be aggravated by exposure to this product. Overexposures to dusts of this product may aggravate respiratory conditions. | |
| Recommendations to Physicians: | Treat symptoms and eliminate overexposure. | |

Ecological Information

Ecotoxicity Data**General:**

Boron (B) is the element in disodium octaborate tetrahydrate (ProTEKtor IID®) which is used by convention to report borate product ecological effects. It occurs naturally in seawater at an average concentration of 5 mg B/L and generally occurs in freshwater at concentrations up to 1 mg B/L. In dilute aqueous solutions the predominant boron species present is undissociated boric acid. To convert disodium octaborate tetrahydrate into the equivalent boron (B) content, multiply by 0.2096.

Phytotoxicity:

Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants (e.g. grass and ornamentals) in high quantities. Care should be taken to minimize the amount of ProTEKtor IID® accidentally spilled and released into the environment.

Algal Toxicity:

Green algae, *Scenedesmus subspicatus* 96-hr EC10 = 24 mg B/L^t

**Invertebrate
Toxicity⁸:**

Daphnids, *Daphnia magna* straus
24-hr EC50 = 242 mg B/L^t

**Test substance
based on:**

^tsodium tetraborate (not diluted)

| | | |
|-----------------------|--|-----------|
| Fish Toxicity: | Seawater ⁹ : | 01 |
| | Dab, <i>Limanda limanda</i> | |
| | 96-hr LC50 = 74mg B/L ^t | 02 |
| | Freshwater ¹⁰ : | 03 |
| | Rainbow trout, <i>S. gairdneri</i> (embryo-larval stage) | |
| | 24-day, LC50 = 88mg B/L ^t | 04 |
| | 32-day, LC50 = 54mg B/L ^t | |
| | Goldfish, <i>Carassius auratus</i> (embryo-larval stage) | |
| | 7-day, LC50 = 65mg B/L ^t | |
| | 3-day, LC50 = 71mg B/L ^t | |

Environmental Fate Data

| | |
|---|---|
| Persistence/ Degradation: | Boron is naturally occurring and ubiquitous in the environment. ProTEKtor IID [®] decomposes in the environment to natural borate. |
| Octanol/Water Partition Coefficient: | No value. In aqueous solution disodium octaborate tetrahydrate is converted substantially into undissociated boric acid. |
| Soil Mobility: | ProTEKtor IID [®] is a water soluble liquid and is leachable through normal soil. |

Disposal Considerations

**Preparing Wastes
for Disposal:**

Waste disposal must be in accordance with appropriate U.S. Federal, State and local regulations, or those of Canada and its Provinces. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**U.S. EPA Waste
Number:**

U.S. Epa Waste Number: Not applicable to wastes consisting only of this product.

Pesticide Disposal:

Pesticide wastes are considered to be acutely hazardous. 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 the label instruction, contact the appropriate U.S. States Pesticide or Environment Control Agency, the Hazardous Waste Representative at the nearest EPA Regional Office, or the offices of Environment Canada for guidance.

Container Disposal:

If necessary, triple rinse (or equivalent), then offer the container for recycling or reconditioning. Alternatively, puncture the container and dispose of in a procedure approved by local authorities.

| | | |
|---------------------------|--|---|
| Disposal Guidance: | <p>Small quantities of ProTEKtor IID® can usually be disposed of at landfill sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements.</p> <p>Tonnage quantities of product are not recommended to be sent to landfills. Such products should, if possible, be used for an appropriate application.</p> | <p>01</p> <p>02</p> <p>03</p> <p>04</p> |
| RCRA (40 CFR 261): | ProTEKtor IID® is not listed under any sections of the Federal Resource Conservation and Recovery Act (RCRA). | |
| NPRI (Canada): | ProTEKtor IID® is not listed on the Canadian National Pollutant Release Inventory. | |

Refer to Section 15 for additional regulatory information.

Transportation Information

**DOT Hazardous
Classification:**

Disodium octaborate tetrahydrate (ProTEKtor IID®) is not regulated by the U.S. Department of Transportation (DOT) and is therefore not considered a hazardous material/substance.

**TDG Canadian
Transportation:**

Disodium octaborate tetrahydrate (ProTEKtor IID®) is not regulated under Transportation of Dangerous Goods (TDG).

**WHMIS
Classification:**

Disodium octaborate tetrahydrate (ProTEKtor IID®) is classified as Class D – Division 2A under Canadian WHMIS guidelines.

**International
Transportation:**

Disodium octaborate tetrahydrate (ProTEKtor IID®) has no UN Number, and is not regulated under international rail, road, water or air transport regulations.

Regulatory Information

FIFRA:

ProTEKtor IID® is registered with the EPA (EPA Reg. No. 1624-39), in accordance with Section 3 of the Federal Professional, Fungicide and Rodenticide Act (FIFRA), as a pesticide product. Refer to EPA approved product label for additional product hazard and precautionary information.

Canadian PCP:

ProTEKtor IID® is registered with Health Canada's Pest Management Regulatory Agency (PMRA) under the Pest Control Products Act (PCP) (PCP Reg. No. 24091).

Chemical Inventory Listing:

Disodium octaborate tetrahydrate (ProTEKtor IID®), 12280-03-4, appears on several chemical inventory lists (including the EPA TSCA inventory, Canadian DSL, European EINECS and Korean lists) under the CAS No. representing the anhydrous form of this inorganic salt.
South Korea 9312-3213

RCRA:

Disodium octaborate tetrahydrate is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 et seq).

| | | |
|---|---|------------------------|
| California Proposition 65: | Disodium octaborate tetrahydrate (ProTEKtor IID®) is not listed on the Proposition 65 list of carcinogens or reproductive toxicants. | 01 02 |
| Superfund: | CERCLA/SARA. Disodium octaborate tetrahydrate is not listed under CERCLA or its 1986 amendments, SARA, including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65, Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302. | 03 04 |
| Safe Drinking Water Act (SDWA): | Disodium octaborate tetrahydrate is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq. Consult state and local regulations for possible water quality advisories regarding boron compounds. | |
| Clean Water Act (CWA) (Federal Water Pollution Control Act): | <p>a) Disodium octaborate tetrahydrate (ProTEKtor IID®) is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.</p> <p>b) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.</p> <p>c) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.</p> | |
| Canadian Drinking Water Guideline: | An “Interim Maximum Acceptable Concentration” (IMAC) for boron is currently set at 5 mg B/L | |

| | | |
|--|---|------------------------|
| IARC: | The International Agency for Research on Cancer (IARC, a unit of the World Health Organization) does not list or categorize disodium octaborate tetrahydrate as a carcinogen. | 01 02 |
| NTP Biennial Report on Carcinogens: | Disodium octaborate tetrahydrate is not listed. | 03 04 |
| OSHA Carcinogen: | Disodium octaborate tetrahydrate is not listed. | |
| Clean Air Act (Montreal Protocol): | ProTEKtor IID® was not manufactured with and does not contain any Class I or Class II ozone-depleting substances. | |

Other Information

References:

1. Litovitz T L, Norman S A, Veltri J C, Annual Report of the American Association of Poison Control Centers Data Collection System. Am. J. Emerg. Med. 4: 427-458 (1986).
2. Weir R J, Fisher R S, Toxicol. Appl. Pharmacol. 23: 351-364 (1972).
3. Fail et al., Fund. Appl. Toxicol. 17: 225-239 (1991).
4. Price et al., J. Am. Coll. Toxicol. 14: (2), 173 (Abst. P-17) (1995).
5. Murray F J, Regul. Toxicol. Pharmacol. (Dec. 1995).
6. National Toxicology Program (NTP)—Toxicology and carcinogenesis studies of boric acid in B6C3F1 mice, Tech. Report Ser. No. 324, U.S. Dept. of Health and Human Services. NIH Publ. No. 88-2580 (1987).
7. Whorton et al., Occup. Environ. Med. 51: 761-767 (1994).
8. Schoberl et al., Tenside Surfactants Detergents 25: 99-107 (1988).
9. Hugman S J, Mance G, Water Research Centre Report 616-M (1983).
10. Butterwick L, de Oude N, Raymond K, Ecotoxicol. Environ. Safety 17: 339-371 (1989).

For general information on the toxicology of inorganic borates, see Patty's Industrial Hygiene and Toxicology, 4th Ed. Vol. II, (1994), Chap. 42, Boron; ECETOC Tech. Report No. 63 (1995).

Date of Issue: January 21, 2021 (Revision 002)

Supersedes: June 18, 2018

Information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is furnished free of charge and is based on data believed to be reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no guarantee, expressed or implied, and no liability is assumed by BarrierTek Inc., in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents.

ProTEKtor IIJ®

Technical Data Sheets

/03



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ProTEKtor IIJ®

Technical Data Sheet

Intumescent Latex Paint

/03

Intended Uses:

01

A fire-resistant latex paint specifically designed for use on wood substrates in attics or other confined spaces to reduce flame spread and smoke development. For interior use.

02

03

Product Description:

04

A high solids latex coating containing pigments and fillers with low VOC levels (less than 5 g/l)

Date of Issue:

January 21, 2021

| Technical Information | |
|---|--|
| Finish: Flat | Standard Colours: Green or Blue |
| Tint Range: Any colour in pastels | Secondary Colours: N/A |
| Required Coverage: 32.8 grams / ft ² | Typical Volume Solids: 62% |
| Recommended # of Coats: 1 at recommended coverage | Typical Specific Gravity: 1.2 |
| Flash Point: N/A | Application Thinner: DO NOT THIN |
| Clean Up: Warm to hot water | |

Flame Spread Index: 10 (CAN/ULC S102)

Smoke Development Index: 50 (CAN/ULC S102)

Surface Preparation

Surfaces must be clean, dry, and free of dust and other debris. Remove any loose substrate pieces (i.e. wood, peeling paint). When treating bare wood surfaces with the intent of fire protection, no priming is required. When treating raw drywall, apply a prime coat.

Application

Brush, roller, or suitable heavy-duty airless sprayer. (Recommended tips are .20-.30 inches.)

Dry times at 21°C and 50% (+ or – 10) R.H.

To Touch: 45 minutes – 2 hours

To Handle: 3 – 5 hours

To Overcoat: 6 hours minimum

Additional Data

For optimum adhesion and application performance, ensure that the temperature and relative humidity are between 15 and 25°C and 40-60% respectively, at the time of application and for four hours afterward.

The information provided is accurate and true to the best of our knowledge. However, no guarantee or warranty of any kind, expressed or implied, is given when the product is not applied by certified BarrierTek Inc. installers.

ProTEKtor IIJ®

Safety Data Sheet

/03

01

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01

Identification

| | |
|------------------------------|---|
| Product Name: | ProTEKtor IIJ® |
| Product Code: | ----- |
| Product Use: | Fire Retardant |
| Manufacturer's Name: | BarrierTek 7123 Sparrow Dr Leduc, Alberta, Canada T9E 7L1 |
| BarrierTek Phone: | (780) 612- 7740 |
| Emergency Phone: | In case of hazardous materials or dangerous goods incident, spill, leak, fire, exposure, or accident, call CHEMTREC 24 hours at 1-800-242-9300 or 1-703-527-3887. |
| SDS Preparation Date: | January 2021 |

05

Hazard Identification

Toxicological Properties

Hazard Classification: Skin irritation Cat.3, Eye irritation Cat.2B

Warning Information: None

Pictogram: None

Signal Words: Warning

Hazard Statement: May be harmful if swallowed.
May be harmful if inhaled.
May cause mild skin irritation.
May cause eye irritation.

Precautions:

1. Avoid contact with eyes. If contact with eyes, wash immediately with plenty of water and seek medical attention.
2. Avoid contact with skin. Exposure to product may result in skin irritation.
3. Do not ingest. Swallowing may cause stomach upset and vomiting.
4. Wear protective clothing and gloves when working with product.

Composition / Information on Ingredients

| Ingredients | CAS # | % Percent (by weight) | Hazard Classification |
|------------------------|-----------------------|-----------------------|-----------------------|
| Acrylic Copolymer | Intellectual Property | 20-30 | None |
| Ammonium Polyphosphate | 68333-79-9 | 10-20 | H315, H320, H335 |
| Water | -- | 20-30 | None |
| Titanium Dioxide | 13463-67-7 | <2 | H351 |

Eye Contact:

Flush eyes gently with water for 10-15 minutes. Flush gently under the upper and lower eyelids. If experiencing painful, irritated or watery eyes, redness or swelling in or around the eyes, or other discomfort, seek medical attention immediately.

Skin Contact:

Thoroughly wash affected area with soap and warm water. Then rinse with warm water for 15 minutes. If rash or skin irritation occurs, seek medical attention immediately.

Inhalation:

If dizziness occurs, move outside or into a well-ventilated space immediately. If dizziness persists, seek medical attention.

Ingestion:

If product is ingested, drink 1-2 cups of water and seek medical attention immediately.

General Guidance:

If feeling unwell, seek medical attention. If possible, show the product label and this safety sheet to medical personnel. Tell medical personnel what chemicals were involved.

05

Fire-Fighting Measures

| | |
|---|--|
| Fire: | Fire Resistant |
| Explosion: | Not considered to be an explosion hazard |
| Fire Extinguishing Media: | Not Required |
| Firefighting Procedures: | Firefighters must wear proper protective equipment including a breathing apparatus with oxygen supply. |
| Protective Equipment for Firefighters: | Firefighters must wear a breathing apparatus, fire protective clothing, and gloves. |

06

Accidental Release Measures

| | |
|-----------------------------------|---|
| Personnel Precautions: | Wear appropriate personal protective equipment. |
| Environmental Precautions: | <ol style="list-style-type: none">1. Ventilate area.2. Keep contaminants from entering sewers. |
| Clean Up: | Contain large spills with sand or soil. When chemical is absorbed, dispose of the sand or soil. Remove any residue from the area. |

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Handling and Storage Procedures

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04

Handling and Storage:

1. Containers must be properly labeled and closed when not in use.
2. Keep readily available to deal with the fire and emergency response device leakage.
3. Place in a cool, dry area, away from heat, sparks, and cold.

08

Exposure Controls: Personal Protection

Engineering Control:

N/A

Control Factor:

N/A

Personal Respirators:

N/A

Skin Protection:

Wear protective gloves.

Eye Protection:

Wear safety glasses or goggles.

09

01

Physical and Chemical Properties

02

03

| | |
|-----------------------|---|
| Colour: | Green or Blue |
| Odor: | N/A |
| Safety Data: | Flash Point: N/A Ignition temperature: N/A Self-ignition temperature: N/A Lower explosion limit: N/A Upper explosion limit: N/A |
| Solubility: | Water miscible |
| Density: | 1.2 |
| PH: | 7-9 |
| Viscosity: | 2500-3500 |
| Solid Content: | 62% |

04

10

Stability and Reactivity

| | |
|--------------------------------|--|
| Stability: | Stable under ordinary conditions of use and storage. |
| Incompatibilities: | Organic solvent |
| Materials to Avoid: | Strong acid or alkali and oxidant |
| Hazardous Decomposition | Will emit smoke, CO, CO ₂ when on fire. |
| Products: | |

11

01

Toxicological Information

02

03

Acute Oral Toxicity (LD50): N/A

04

Sub-chronic Effects: N/A

Chronic Toxicity or Long N/A

Term Toxicity:

12

Ecological Information

Ecological Effect: Fish toxicity (LC50); None

Environmental Effects: Do not dispose of this product into the sewer water or into soil.

13

Disposal Considerations

Dispose of waste in sanitary landfill or by incineration in accordance with regulations.

14

01

Transportation Information

02

03

International Regulations: Not a hazardous or restricted item for transport by road, rail, sea or air.

04

Transportation Summary: These products are not regulated as hazardous materials.

UN Classification Number: N/A

IMDG Code & Package None

Group:

Marine Pollutant: N/A

Specific Precautionary

Transport Measures and N/A

Conditions:

15

Regulatory Information

Health Hazardous Goods: No

Environmental Hazardous No

Goods:

Fire Hazardous Goods: No

Information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is furnished free of charge and is based on data believed to be reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no guarantee, expressed or implied, and no liability is assumed by BarrierTek Inc., in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents.

ProTEKtor® (PG)

Technical Data Sheets

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ProTEKtor® (PG)

Technical Data Sheet

Intumescent Latex Paint

/04

Intended Uses:

- 01 A fire-resistant latex paint specifically designed for use on wood
- 02 substrates in attics or other confined spaces to reduce flame spread
- 03 and smoke development. For interior use.

Product Description:

- 04 A high solids latex coating containing pigments and fillers with low VOC levels (less than 5 g/l)

Date of Issue:

January 21, 2021

| Technical Information | |
|---|--|
| Finish: Flat | Standard Colours: Green or Blue |
| Tint Range: Any colour in pastels | Secondary Colours: By special request only |
| Required Coverage: 32.8 grams / ft ² | Typical Volume Solids: 62% |
| Recommended # of Coats: 1 at recommended coverage | Typical Specific Gravity: 1.2 |
| Flash Point: N/A | Application Thinner: DO NOT THIN |
| Clean Up: Warm to hot water | |

Flame Spread Index: 0 (ASTM E84 – 30 minute extended)

***flame front did not propagate beyond 10'6" for the 30 minute duration of the test (ASTM E2768)*

Smoke Development Index: 50 (ASTM E84 – 30 minute extended)

Surface Preparation

Surfaces must be clean, dry, and free of dust and other debris. Remove any loose substrate pieces (i.e. wood, peeling paint).

When treating bare wood surfaces with the intent of fire protection, no priming is required. When treating raw drywall, apply a prime coat.

Application

Brush, roller, or suitable heavy-duty airless sprayer. (Recommended tips are .20-.30 inches.)

Dry times at 21°C and 50% (+ or – 10) R.H.

To Touch: 45 minutes – 2 hours

To Handle: 3 – 5 hours

To Overcoat: 6 hours minimum

Additional Data

For optimum adhesion and application performance, ensure that the temperature and relative humidity are between 15 and 25°C and 40-60% respectively, at the time of application and for four hours afterward.

The information provided is accurate and true to the best of our knowledge. However, no guarantee or warranty of any kind, expressed or implied, is given when the product is not applied by certified BarrierTek Inc. installers.

ProTEKtor® (PG)

Safety Data Sheet

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Identification

| | |
|------------------------------|---|
| Product Name: | ProTEKtor® |
| Product Code: | ----- |
| Product Use: | Fire Retardant |
| Manufacturer's Name: | BarrierTek 7123 Sparrow Dr Leduc, Alberta, Canada T9E 7L1 |
| BarrierTek Phone: | (780) 612- 7740 |
| Emergency Phone: | In case of hazardous materials or dangerous goods incident, spill, leak, fire, exposure, or accident, call CHEMTREC 24 hours at 1-800-242-9300 or 1-703-527-3887. |
| SDS Preparation Date: | September 2020 |

05

Hazard Identification

Toxicological Properties

Hazard Classification: Skin irritation Cat.3, Eye irritation Cat.2B

Warning Information: None

Pictogram: None

Signal Words: Warning

Hazard Statement: May be harmful if swallowed.
May be harmful if inhaled.
May cause mild skin irritation.
May cause eye irritation.

Precautions:

1. Avoid contact with eyes. If contact with eyes, wash immediately with plenty of water and seek medical attention.
2. Avoid contact with skin. Exposure to product may result in skin irritation.
3. Do not ingest. Swallowing may cause stomach upset and vomiting.
4. Wear protective clothing and gloves when working with product.

Composition / Information on Ingredients

| Ingredients | CAS # | % Percent (by weight) | Hazard Classification |
|------------------------|-----------------------|-----------------------|-----------------------|
| Acrylic Copolymer | Intellectual Property | 20-30 | None |
| Ammonium Polyphosphate | 68333-79-9 | 10-20 | H315, H320, H335 |
| Water | -- | 20-30 | None |
| Titanium Dioxide | 13463-67-7 | <2 | H351 |

Eye Contact:

Flush eyes gently with water for 10-15 minutes. Flush gently under the upper and lower eyelids. If experiencing painful, irritated or watery eyes, redness or swelling in or around the eyes, or other discomfort, seek medical attention immediately.

Skin Contact:

Thoroughly wash affected area with soap and warm water. Then rinse with warm water for 15 minutes. If rash or skin irritation occurs, seek medical attention immediately.

Inhalation:

If dizziness occurs, move outside or into a well-ventilated space immediately. If dizziness persists, seek medical attention.

Ingestion:

If product is ingested, drink 1-2 cups of water and seek medical attention immediately.

General Guidance:

If feeling unwell, seek medical attention. If possible, show the product label and this safety sheet to medical personnel. Tell medical personnel what chemicals were involved.

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Fire-Fighting Measures

| | |
|---|--|
| Fire: | Fire Resistant |
| Explosion: | Not considered to be an explosion hazard |
| Fire Extinguishing Media: | Not Required |
| Firefighting Procedures: | Firefighters must wear proper protective equipment including a breathing apparatus with oxygen supply. |
| Protective Equipment for Firefighters: | Firefighters must wear a breathing apparatus, fire protective clothing, and gloves. |

06

Accidental Release Measures

| | |
|-----------------------------------|---|
| Personnel Precautions: | Wear appropriate personal protective equipment. |
| Environmental Precautions: | <ol style="list-style-type: none">1. Ventilate area.2. Keep contaminants from entering sewers. |
| Clean Up: | Contain large spills with sand or soil. When chemical is absorbed, dispose of the sand or soil. Remove any residue from the area. |

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Handling and Storage Procedures

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Handling and Storage:

1. Containers must be properly labeled and closed when not in use.
2. Keep readily available to deal with the fire and emergency response device leakage.
3. Place in a cool, dry area, away from heat, sparks, and cold.

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Exposure Controls: Personal Protection

Engineering Control:

N/A

Control Factor:

N/A

Personal Respirators:

N/A

Skin Protection:

Wear protective gloves.

Eye Protection:

Wear safety glasses or goggles.

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Physical and Chemical Properties

| | |
|-----------------------|---|
| Colour: | Green or Blue |
| Odor: | N/A |
| Safety Data: | Flash Point: N/A Ignition temperature: N/A Self-ignition temperature: N/A Lower explosion limit: N/A Upper explosion limit: N/A |
| Solubility: | Water miscible |
| Density: | 1.2 |
| PH: | 7-9 |
| Viscosity: | 2500-3500 |
| Solid Content: | 62% |

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Stability and Reactivity

| | |
|--------------------------------|--|
| Stability: | Stable under ordinary conditions of use and storage. |
| Incompatibilities: | Organic solvent |
| Materials to Avoid: | Strong acid or alkali and oxidant |
| Hazardous Decomposition | Will emit smoke, CO, CO ₂ when on fire. |
| Products: | |

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Toxicological Information

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Acute Oral Toxicity (LD50): N/A

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Sub-chronic Effects: N/A

Chronic Toxicity or Long N/A

Term Toxicity:

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Ecological Information

Ecological Effect: Fish toxicity (LC50); None

Environmental Effects: Do not dispose of this product into the sewer water or into soil.

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Disposal Considerations

Dispose of waste in sanitary landfill or by incineration in accordance with regulations.

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Transportation Information

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International Regulations: Not a hazardous or restricted item for transport by road, rail, sea or air.

04

Transportation Summary: These products are not regulated as hazardous materials.

UN Classification Number: N/A

IMDG Code & Package None

Group:

Marine Pollutant: N/A

Specific Precautionary N/A

**Transport Measures and
Conditions:**

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Regulatory Information

Health Hazardous Goods: No

Environmental Hazardous No

Goods:

Fire Hazardous Goods: No

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