



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|-------------------------|-------------------------|----------------------|---|
| Product Name: | 3300PS | Product Code: | PSF |
| Product Type: | Intumescent Putty Stick | Use: | One-component sealant designed to seal through-penetrations of electrical wires, conduit and cables against spread of fire, smoke fumes and toxic gases |
| Chemical Family: | Organic/Inorganic | | |

Company Address:
Passive Fire Protection Partners
1412 Derwent Way
Delta, BC V3M 6H9
Canada

Contact Information:
Telephone: 800.810.1788
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.firestop.com

SECTION 2. HAZARDS IDENTIFICATION

Summary

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use in a manner that avoids generating dust. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/OSHA HCS 2012/GHS

Hazard Symbols:



Eye irritation (Category 2B)
Carcinogenicity (Category 2)

Other hazards which do not result in classification:
Skin irritation (Category 3).

Precautionary Statements:

H320: Causes eye irritation
H351: Suspected of causing cancer.
H316: Causes mild skin irritation
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash thoroughly after handling.
P280: Wear protective gloves, protective clothing and eye/face protection.
P332+313: If skin irritation occurs: Get medical advice or attention.
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists: Get medical advice or attention.
P405: Store locked up.
P501: Dispose of contents and container to accordance with local regulations.

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SECTION 3. COMPOSITION /INFORMATION ON INGREDIENTS

| Hazardous Components | CAS NUMBER | Weight %* Content |
|-------------------------|------------|-------------------|
| Polybutene | 9003-29-6 | 25 - 29 |
| Ammonium polyphosphate | 68333-79-9 | 20 - 25 |
| Expanded perlite | 93763-70-3 | 11 - 15 |
| Decabromodiphenyl ether | 1163-19-5 | 8 - 12 |
| Pentaerythritol | 115-77-5 | 6 -10 |
| Melamine | 108-78-1 | 5 - 9 |
| Antimony trioxide | 1309-64-4 | 2 - 8 |
| Note: | | |

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protection.

SECTION 4. FIRST AID MEASURES

- Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.
- Skin contact:** Wash affected area immediately with mild soap and warm water. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
- Eye contact:** Immediately flush eyes with plenty of water. Remove contact lenses. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persist, seek medical attention.
- Ingestion:** Do Not induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water. Never give anything by mouth if victim is unconscious or convulsing. Seek medical attention or contact a Poison Centre immediately.
- Other:** No information available.
- Symptoms:** May cause redness and irritation of the skin and to eyes. May cause an allergic reaction of the skin.
- Notes to the physician:** Treat symptomatically. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Use appropriate extinguisher for surrounding fire.
- Specific hazards arising from the chemical:** This product is used to contain fire.
- Specific protective equipment:** Firefighters must wear self contained breathing apparatus with full face mask. Firefighter suit may not be efficient against chemicals.
- Specific protective actions for firefighters:** Water spray can be used to cool equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** Do not touch spilled material. Make sure to wear personal protective equipment mentioned in the Safety Data Sheet.
- Environmental precautions:** Prevent product from entering drains.
- Methods and material for containment and clean-up:** Ventilate well the area. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal clearly identified.

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Use only in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Wear eye protection, gloves and other protection clothing that are adapted to the task being performed and the risks involved. All items should be warmed to at least 0°C (32°F) prior to installation. Do not eat, do not drink and do not smoke during use. Keep containers tightly closed when not used. After use, wash hands with soap and water. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities: Store tightly close and in properly labelled container. Store away from oxidizing materials and incompatible materials (see section 10). Storage in high heat, high humidity conditions may reduce products shelf life. Keep from freezing.

Storage: 4 to 32°C (39.2 to 90°F)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Immediately Dangerous to Life or Health

Antimony trioxide: 50 mg/m³

| Hazardous Components | | | | | |
|-------------------------|----------|-------------------------------|--|---|----------------------|
| Expanded perlite | TWA (8h) | Respirable Dust Total Dust | | 3 mg/m ³ 10 mg/m ³ | ACGIH ACGIH, RSST |
| Decabromodiphenyl ether | TWA (8h) | | | 5 mg/m ³ | US AIHA |
| Pentaerythritol | TWA (8h) | | | 10 mg/m ³ | ACGIH, BC, ON, RSST |
| Melamine | TWA (8h) | Respirable Dust Total Dust | | 5 mg/m ³ 10 mg/m ³ | US AIHA US AIHA |
| Antimony trioxide | TWA (8h) | Value as Metal | | 0.5 mg/m ³ | ACGIH, OSHA, RSST |

Appropriate engineering controls: Provide sufficient mechanical (general and/or local exhaust) to keep the airborne concentrations of dust below their respective occupational exposure limits. Triphenyl phosphate: 1000 mg/m³

Individual protection measures

Eyes: Safety glasses. If risk of contact with eyes chemical splash goggles.

Hands: Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly. Before using, user should confirm impermeability. Discard gloves that show tears, pinholes, or signs of wear.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear an apron, if necessary, to prevent repeated or prolonged contact with skin.

Respiratory: A respirator is not required in a well ventilated area. Respiratory protection equipment (PPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH/MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit: wear a half mask respirator with appropriate cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with appropriate cartridges and P100 filters.

Feet: Wear safety shoes.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|------------------------------|
| Physical state: | Solid |
| Colour: | Dark red |
| Odour: | Negligible |
| Odor threshold: | Not available |
| pH: | Not available |
| Vapor pressure: | Not available |
| Boiling point/range: | Not available |
| Freezing point/range: | Not available |
| Melting point/range: | Not available |
| Specific gravity: | 1.27 - 1.47 kg/L (Water = 1) |
| Flash point: | Not applicable |
| Flammable / Explosive limits - lower: | Not applicable |
| Flammable / Explosive limits - upper: | Not applicable |
| Autoignition temperature: | Not applicable |
| Evaporation rate: | Not applicable |
| Solubility in water: | Soluble in water |
| Vapour density | Not applicable (Air = 1) |
| Percent Volatile: | 0% |
| Viscosity: | Not applicable |

SECTION 10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | Stable under normal conditions of storage and use. |
| Possibility of hazardous reactions: (Including polymerizations) | Hazardous polymerization will not occur under recommended storage. |
| Hazardous decomposition products: | Under normal conditions of storage and use, hazardous decomposition products should not be produced |
| Incompatible materials: | Strong oxidizing agents (such as nitric acid, perchloric acid peroxides, chlorates and perchlorates), strong acids, strong bases. |
| Reactivity: | Not information available for this product |
| Conditions to avoid: | Do not freeze. Avoid contact with incompatible materials. Avoid contamination with another chemical product. |

SECTION 11. TOXICOLOGICAL INFORMATION

Relevant Routes of Exposure: Inhalation, Skin Contact, Eyes, Ingestion





Safety Data Sheet (SDS)
OSHA Haz Com Standard 29 CFR 1910.1200.

Revision Date: 01/06/2015

Version: 1.0

Replaces Version:

| | | | | | |
|--|-------------------------|---------------|---------------|--------|------|
| Numerical measures of toxicity: | Polybutene | Ingestion | >10000 mg/kg | Rat | LD50 |
| | | Inhalation | >19.1 mg/l/4h | Rat | LD50 |
| | | Skin | >2000 mg/kg | Rabbit | LD50 |
| | Ammonium polyphosphate | Ingestion | <2000 mg/kg | Rat | LD50 |
| | | | >300 mg/kg | Rat | LC50 |
| | | Inhalation | >4.85 mg/l/4h | Rat | LD50 |
| | Expanded perlite | Ingestion | 12960 mg/kg | Mouse | LD50 |
| | | Skin | >2000 mg/kg | Rabbit | LD50 |
| | Decabromodiphenyl ether | Ingestion | >2000 mg/kg | Rat | LD50 |
| | | Inhalation | >48.2 mg/l/1h | Rat | LC50 |
| | | Skin | >8000 mg/kg | Rabbit | LD50 |
| | Pentaerythritol | Ingestion | 19500 mg/kg | Rat | LD50 |
| | | Inhalation | >11 mg/l/4h | Rat | LC50 |
| | | Skin | >10000 mg/kg | Rabbit | LD50 |
| | Melamine | Ingestion | 3160 mg/kg | Rat | LD50 |
| | Inhalation | >5.19 mg/l/4h | Rat | LD50 | |
| | Skin | >10000 mg/kg | Rabbit | LD50 | |
| Antimony trioxide | Ingestion | >34500 mg/kg | Rat | LD50 | |
| | Inhalation | >5.2 mg/l/4h | Rat | LC50 | |
| | Skin | >8300 mg/kg | Rabbit | LD50 | |

Delayed, immediate and chronic effects

| | | | | | | | |
|--|---|-------------|------|-----|-------------------|----|---|
| Eye contact: | May cause redness and slight irritation of the eyes. The mechanical friction can increase eyes irritation. Eye Irritation/Corrosion, Rabbit: tests performed with each ingredient of this mixture gave not irritating to slightly irritating results. | | | | | | |
| Skin contact: | The mechanical friction can increase skin irritation. Prolonged or repeated exposure may cause skin irritation. Skin Irritation/Corrosion, Rabbit : tests performed with each ingredient of this mixture gave not irritating to slightly irritating results. | | | | | | |
| Inhalation: | Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Overexposure may cause nose, throat and respiratory tract irritation. | | | | | | |
| Ingestion: | Swallowing will cause digestive tract disturbances resulting in nausea, vomiting, cramps and diarrhea. | | | | | | |
| Respiratory or skin sensitization IARC: | Ingredients present at levels greater than or equal to 0.1% of this product are skin or respiratory sensitizers. | | | | | | |
| NTP Classification: | <table border="0"> <tr> <td>Common name</td> <td>IARC</td> <td>NTP</td> </tr> <tr> <td>Antimony trioxide</td> <td>2B</td> <td>-</td> </tr> </table> <p>IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.</p> | Common name | IARC | NTP | Antimony trioxide | 2B | - |
| Common name | IARC | NTP | | | | | |
| Antimony trioxide | 2B | - | | | | | |
| Carcinogenicity: | Contains ingredient possibly carcinogenic to humans. Prolonged or repeated inhalation of dust increase the risk of cancer hazard. Reported studies on rat, run at higher lung burdens, found antimony trioxide dust to be a carcinogen via inhalation. | | | | | | |
| Mutagenicity: | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effect. Antimony trioxide show negative result on mutagenicity tests (CERI Hazard Data 2001-7 (2002), IARC 47 (1989)) | | | | | | |
| Reproductive Toxicity: | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause effects on reproduction. | | | | | | |
| Specific target organ toxicity (single exposure): | No target organ is listed. | | | | | | |
| Specific target organ toxicity (repeated exposure): | No target organ is listed. | | | | | | |
| Interactive effects: | No information available for this product. | | | | | | |
| Other information: | This chemical does not deplete the ozone layer. | | | | | | |

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SECTION 12. ECOLOGICAL INFORMATION

| | | |
|----------------------------------|--|--|
| Ecological toxicity: | Fish - <i>Oryzias latipes</i> Fish - <i>Pimephales promelas</i> [static] Fish - <i>Leuciscus idus</i> | LC50 >500 mg/L; 48 h (Decabromodiphenyl ether) LC50 >80 mg/L; 96 h (Antimony trioxide) LC50 >10000 mg/L; 96 h (Polybutene) |
| Persistence | May persist in the environment. | |
| Degradability | No information available for this product. The term biodegradability, as such, is not applicable to inorganic compounds. Decabromodiphenyl ether is not readily biodegradable (0% in 28 days) according to OECD Guideline 301C. Polybutene is readily biodegradable 93.9% in 28 days (OECD Guideline 310). | |
| Bioaccumulative potential | No information available for this product. Decabromodiphenyl ether has a Bioconcentration Factor (BCF) of <5 and <50, indicating that its potential to bioaccumulate is low. | |
| Mobility in soil | No information available for this product. This mixture is likely to have low mobility in soil. The Koc of polybutene was calculated as 2691534. It is expected to have slight mobility in soil. | |
| Other adverse effects | This chemical does not deplete the ozone layer. | |

SECTION 13. DISPOSAL CONSIDERATIONS

| | |
|-------------------|--|
| Container: | Important! Prevent waste generation. Use in full. DO NOT throw residual to sewer, streams, sewers or drinking water supply. Smaller quantities can be disposed like normal waste. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities. |
|-------------------|--|

SECTION 14. TRANSPORT INFORMATION

| Regulatory Information | UN Number | Proper Shipping Name | Classes | PG* | Label | Additional Information |
|------------------------|---------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | Not regulated | - | - | - | - | - |
| TDG Classification | Not regulated | - | - | - | - | - |
| Mexico Classification | Not regulated | - | - | - | - | - |
| ADR / RID Class | Not regulated | - | - | - | - | - |
| IMDG Class | Not regulated | - | - | - | - | - |
| IATA-DGR Class | Not regulated | - | - | - | - | - |

U.S. Department of Transportation Ground (49 CFR)

| | |
|----------------------------------|--|
| Proper shipping name: | Not regulated |
| Hazard class or division: | This material is not listed as marine pollutant. |
| Identification number: | None |
| Packing group: | None |

International Air Transportation (ICAO/IATA)

| | |
|----------------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |

Water Transportation (IMO/IMDG)

| | |
|----------------------------------|---------------|
| Proper shipping name: | Not regulated |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |

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SECTION 15. REGULATORY INFORMATION

United State of America

| Common Name | CAS | TSCA | CERCLA | EPCRA 313 | EPCRA 302/304 | CAA 112(b) HON | CAA 112(b) HAP | CAA 112(r) | CWA 311 | CWA Priority |
|-------------------------|------------|------|--------|-----------|---------------|----------------|----------------|------------|---------|--------------|
| Polybutene | 9003-29-6 | X | | | | | | | | |
| Ammonium polyphosphate | 68333-79-9 | X | | | | | | | | |
| Expanded perlite | 93763-70-3 | X | | | | | | | | |
| Decabromodiphenyl ether | 1163-19-5 | X | | X | | | | | | |
| Pentaerythritol | 115-77-5 | X | | | | X | | | | |
| Melamine | 108-78-1 | X | | X | | | | | | |
| Antimony trioxide | 1309-64-4 | X | X | | | | | | X | |

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

Canada

| Common Name | CAS | CEPA | DSL | NDSL | NPRI |
|-------------------------|------------|------|-----|------|------|
| Polybutene | 9003-29-6 | | X | | |
| Ammonium polyphosphate | 68333-79-9 | | X | | X |
| Expanded perlite | 93763-70-3 | | X | | |
| Decabromodiphenyl ether | 1163-19-5 | | X | | X |
| Pentaerythritol | 115-77-5 | | X | | |
| Melamine | 108-78-1 | | X | | |
| Antimony trioxide | 1309-64-4 | | X | | X |

California Proposition 65

| Common Name | CAS | Cancer | Reproductive and Developmental Toxicity |
|-------------------|-----------|--------|---|
| Antimony trioxide | 1309-64-4 | X | |

SECTION 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections:

Prepared by: Chemical Laboratory
Issue date: June 1, 2015

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Safety Data Sheet (SDS)
OSHA Haz Com Standard 29 CFR 1910.1200.



Revision Date: 01/06/2015

Version: 1.0

Replaces Version:

**Other
information**

REFERENCES:

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <http://hazmap.nlm.nih.gov/index.php>
- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <http://toxnet.nlm.nih.gov/>
- Service du répertoire toxicologique de la Commission de la santé et de la sécurité du travail (CSST), <http://www.reptox.csst.qc.ca>
- OECD Existing Chemicals Database, Chemicals Screening Information DataSet (SIDS) for High Volume Chemicals, UNEP publications, <http://webnet.oecd.org/HPV/UI/Search.aspx>
- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Association
- HMS: Hazardous Materials Identification System
- NFPA: National Fire Protection Association
- OSHA: Occupational Safety and Health Administration (USA)
- NIOSH: National Institute for Occupational Safety and Health
- NTP: National Toxicology Program
- RSST: Règlement sur la santé et la sécurité du travail (Québec)
- GHS: Globally Harmonized System
- IARC: International Agency for Research on Cancer
- IDLH: Immediately Dangerous to Life or Health
- STEL: Short Term Exposure Limit (15 min)
- TWA: Time Weighted Averages
- WHMIS: Workplace Hazardous Materials Information System

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