

SAFETY DATA SHEET

| SECTION 1 : IDENTIFICATION | | | |
|-----------------------------------|--|---|----------------|
| PRODUCT IDENTIFIER: | ITP P.E. FOAM PROFILES AND EXTRUSIONS (WHITE) | MANUFACTURER NAME & ADDRESS: | |
| CHEMICAL IDENTITY: | POLYETHYLENE | INDUSTRIAL THERMO POLYMERS (Owned and Operated by Armacell Canada Inc.) 153 VAN KIRK DRIVE BRAMPTON, ONTARIO , L7A 1A4 | |
| RECOMMENDED USE | PACKAGING, CUSHIONING, SOUND DAMPENING, INSULATION, SEALING, FLOATATION etc. | PHONE NO.: | 1-905-846-3666 |
| RESTRICTION OF USE | NONE | FAX NO.: | 1-905-846-0363 |
| | | EMERGENCY PHONE NO.: | 1-800-387-3847 |

SECTION 2 : HAZARD(S) IDENTIFICATION

- POLYETHYLENE EXTRUDED FOAM PRODUCTS ARE CLASSIFIED BY OSHA AS "NON HAZARDOUS".
- PE FOAM PRODUCTS ARE MADE FROM POLYETHYLENE RESIN , ADDITIVES AND ISOBUTANE .(MORE DETAILS IN SEC.3.)
- ISOBUTANE, A FLAMABLE HYDROCARBON IS USED AS BLOWING AGENT. SMALL TRACES OF THIS GAS MAY BE PRESENT IN THE PRODUCT. THIS GAS MAY ACCUMULATE AT HAZARDOUS CONCENTRATIONS ABOVE THE LOWER FLAMMABLE LIMITS (LFL) IF LARGE QUANTITIES OF THIS PRODUCT ARE STORED IN UNVENTILATED AREAS.

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|----------------------------|--|--|--|--|---|
| ROUTES OF EXPOSURE: | SWALLOWING <input checked="" type="checkbox"/> | SKIN ABSORPTION <input type="checkbox"/> | INHALATION <input checked="" type="checkbox"/> | SKIN CONTACT <input checked="" type="checkbox"/> | EYE CONTACT <input checked="" type="checkbox"/> |
|----------------------------|--|--|--|--|---|

EFFECTS OF A SINGLE (ACUTE) OVEREXPOSURE BY:

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| SWALLOWING: | CHOKING - MECHANICAL BLOCKAGE |
| SKIN ABSORPTION: | NOT LIKELY. |
| INHALATION: | FOAM DUST MAY CAUSE IRRITATION TO NOSE , THROAT OR LUNGS. |
| SKIN CONTACT: | NON IRRITATING TO SKIN CONTACT |
| EYE CONTACT: | EYE INJURY OR FOAM DUST MAY CAUSE IRRITATION TO EYES |
| OTHER EFFECTS | NOT KNOWN |

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENTS | CAS NO. | WEIGHT % | EXPOSURE LIMITS ACGIH - TLV* |
|--------------|-----------|-----------|---------------------------------|
| POLYETHYLENE | 9002-88-4 | 75% -100% | NA |
| ISOBUTANE | 75-28-5 | - | 800 PPM TWA |
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* Applicable provincial TLV's may differ

* Specific chemical names and percentage in the mix has been withheld to protect trade secret.

SECTION 4 : FIRST AID MEASURES

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| SWALLOWING: CONSULT PHYSICIAN | SKIN CONTACT: WASH WITH SOAP AND WATER |
| INHALATION: MOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF BREATHING PROBLEMS PERSISTS. | EYE CONTACT: FLUSH EYES WITH CLEAN LUKEWARM WATER. CONSULT PHYSICIAN. |

SECTION 5 : FIRE FIGHTING MEASURES

1. PE FOAM IS COMBUSTIBLE AND SHOULD NOT BE EXPOSED TO SPARKS OR OPEN FLAME. RESULTS IN CLASS A FIRE.
2. FIRE TO BE EXTINGUISHED BY USING WATER FOG OR FINE SPRAY. SOAK THE PRODUCT WITH WATER TO COOL AND SMOTHER.
3. FIRE WILL CAUSE DENSE SMOKE. USE SELF-CONTAINED BREATHING APPRATUS AND FULL PROTECTIVE CLOTHING.
4. FIRE WILL RESULT IN INTENSE HEAT AND SMOLDERING. EXTINGUISHMENT IS BY COOLING WITH WATER.
5. OTHER FIRE EXTINGUISHERS (DRY CHEMICAL, FOAM OR CO2 EXTINGUISHERS) MAY BE USED FOR EXTINGUISHMENT.
6. CHEMICAL/GASEOUS HAZARDS LIKE CO, CO2 AND CARBON MAY BE PRODUCED FROM THE SMOLDERING SUBSTANCES AND FIRE.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PE FOAM IS COMBUSTIBLE. SHOULD NOT BE EXPOSED TO SPARKS OR OPEN FLAME. RESULTS IN CLASS 'A' FIRE.

SECTION 7: HANDLING AND STORAGE

- PE FOAM IS COMBUSTIBLE AND SHOULD NOT BE EXPOSED TO SPARKS OR OPEN FLAME. WHEN BURNS, WILL RELEASE TOXIC GASES LIKE CO .

-WHEN FABRICATING OR CUTTING , THIS PRODUCT MAY RELEASE TRAPPED ISOBUTANE FROM THE FOAM CELLS. ADEQUATE VENTILATION IS A MUST.

- PE FOAM SHOULD BE STORED IN COOL, DRY AND WELL VENTILATED LOCATIONS. ISOBUTANE GAS MAY ACCUMULATE AROUND THE PRODUCT.

- PE FOAM IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS LIKE, CL₂ ,H₂O₂ , KNO₃ ,H₂SO₄.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- NOT NECESSARY OTHER THAN STATED IN SECTION 2

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| PHYSICAL STATE: | SOLID | FREEZING POINT: | N/A | SPECIFIC GRAVITY VAPOUR | N/A |
| BOILING POINT 760 mm Hg: | N/A | VAP. PRESS at 20°C: | N/A | MOLECULAR WEIGHT: | N/A |
| SPECIFIC GRAVITY | 0.01 - 0.15 | SOLUBILITY IN WATER | INSOLUBLE | COEFFICIENT OF WATER / OIL DISTRIBUTION: | N/A |
| MELTING POINT: | + 212°F | EVAPORATION RATE | N/A | | |
| DENSITY | 0-30 lbs/cuft | % VOLATILES BY VOLUME: | N/A | VAPOUR DENSITY | N/A |
| APPEARANCE | CLOSED CELL FOAM | ODOR: | NEGLIGIBLE | ODOR THRESHOLD: | N/A |

SECTION 10 : STABILITY AND REACTIVITY

- PE FOAM IS STABLE AND NON-REACTIVE. OTHER THAN CONDITIONS STATED IN SECTION 5 ,6 & 7

SECTION 11 : TOXICOLOGICAL INFORMATION

- PE FOAM HAS NO CARCINOGENIC SUBSTANCES. IT IS NOT LISTED IN : IARC & NTP

ROUTES OF EXPOSURE : | SWALLOWING | FOAM DUST INHALATION | SKIN CONTACT | EYE CONTACT

EFFECTS OF ABOVE EXPOSURE STATED IN SECTION 4

SECTION 12 : ECOLOGICAL INFORMATION

- PE FOAM DOES NOT EXHIBIT ANY SIGNIFICANT BIODEGRADATION.

SECTION 13 : DISPOSAL CONSIDERATIONS

- PE FOAM CAN BE REPROCESSED OR CAN BE DISPOSED OFF IN LANDFILL

SECTION 14 : TRANSPORT INFORMATION

- PE FOAM HAS SOME RESIDUAL ISOBUTANE AND HENCE TO BE TRANSPORTED IN VENTILATED TRAILERS.

SECTION 15 : REGULATORY INFORMATION

- PE FOAM HAS NO CARCINOGENIC SUBSTANCES AND IS CLASSIFIED AS NON HAZARDOUS UNDER THE FEDERAL OSHA STANDARDS.

SECTION 16 : OTHER INFORMATION

| PREPARED BY / DEPARTMENT | PHONE NUMBER | DATE UPDATED |
|---------------------------------|-------------------------------|----------------|
| HARENDRA RATHOD / QA DEPARTMENT | 905-846-3666 / 1-800-387-3847 | April 16, 2015 |

FOR INFORMATION : Visit Web: www.tundrafoam.com or Email: info@tundrafoam.com