

HECKMANN BUILDING PRODUCTS INC. – SAFETY DATA SHEET (SDS)

1. IDENTIFICATION

Product Identifier: **Pos-I-Tie® ThermalClip®**

Manufacturer: Heckmann Building Products Inc. – 1501 N. 31st Avenue, Melrose Park, IL 60160-2911

Phone and emergency number: 708-865-2403

2. HAZARD(S) IDENTIFICATION

2.1. Emergency Overview:

General Information

Appearance – plastic clips

Color – Black

Odor - Odorless

Main Effects – It its fabricated form the ThermalClip® poses no hazards. Hazardous decomposition products are formed under fire conditions.

- Product dust may be irritating to eyes, skin and respiratory system.

2.2. Potential Health Effects:

Inhalation

- Mechanical irritation from the particulates generated by the product.

- Thermal decomposition can lead to release of hazardous gases and vapors

Eye Contact - Mechanical irritation from the particulates generated by the product.

Skin Contact - Mechanical irritation from the particulates generated by the product.

Ingestion – Low ingestion hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Polyphenylsulfone

CAS-No. : 25608-64-4

Concentration : $\geq 99.0\%$

Carbon Black

CAS-No : 1333-86-4

Concentration : $\geq 0.0 < 1.0\%$

4. FIRST-AID MEASURES

4.1. Inhalation

- Remove to fresh air.

- If symptoms persist, call a physician.

4.2. Eye contact

-Flush eyes with running water for several minutes, while keeping the eyelids wide open.

- If eye irritation persists, consult a specialist.

4.3. Skin contact

- Cool skin rapidly with cold water after contact with hot polymer.
- Do not peel polymer from the skin.
- Obtain medical attention.

4.4. Ingestion

- Never give anything by mouth to an unconscious person.
- If a large amount is swallowed, get medical attention.

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

- powder
- Foam
- Water
- Water spray
- Carbon dioxide (CO₂)

5.2. Extinguishing media which shall not be used for safety reasons

- None.

5.3. Special exposure hazards in a fire

- Combustible material
- In a fire, the polymer melts, producing droplets which may propagate fire.
- Once started, a fire will tend to self extinguish (see section 9).
- Risk of dust explosion.
- Heating can release hazardous gases.

5.4. Hazardous decomposition products

- Carbon monoxide
- Sulphur oxides
- Hydrocarbons
- Carbon dioxide (CO₂)
- The release of other hazardous decomposition products is possible.

5.5. Special protective equipment for fire-fighters

- In the event of fire, wear self-contained breathing apparatus.
- Fire fighters must wear fire resistant personnel protective equipment.

5.6. Other information

- Avoid dust formation.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Advice for non-emergency personnel

- Refer to protective measures listed in sections 7 and 8.

6.1.2. Advice for emergency responders

- Sweep up to prevent slipping hazard.
- Avoid dust formation.
- Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

- Should not be released into the environment.
- The product should not be allowed to enter drains, water courses or the soil.
- In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations

6.3. Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Avoid dust formation.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

- Take measures to prevent the build up of electrostatic charge.
- Ensure all equipment is electrically grounded before beginning transfer operations.
- Use only equipment and materials which are compatible with the product.
- To avoid thermal decomposition, do not overheat.

7.2. Storage

- Keep container closed.
- Keep away from heat and sources of ignition.

7.3. Other information

- Keep away from open flames, hot surfaces and sources of ignition.
- To avoid thermal decomposition, do not overheat.
- Avoid dust formation.
- Refer to protective measures listed in sections 7 and 8.
- Do not smoke.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limit Values

Particles not otherwise specified (PNOS)

- US. ACGIH Threshold Limit Values 2007

time weighted average = 3 mg/m³

Remarks: Respirable particles.

- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006

Permissible exposure limit = 5 mg/m³

Remarks: respirable dust fraction, All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

- US. ACGIH Threshold Limit Values 2010

time weighted average = 10 mg/m³

Remarks: Inhalable particles.

- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006

Permissible exposure limit = 15 mg/m³

Remarks: Total dust, All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

- US. OSHA Table Z-3 (29 CFR 1910.1000) 2000
time weighted average = 15 millions of particles per cubic foot of air

Remarks: respirable dust fraction

- US. OSHA Table Z-3 (29 CFR 1910.1000) 2000
time weighted average = 50 millions of particles per cubic foot of air

Remarks: Total dust

- US. OSHA Table Z-3 (29 CFR 1910.1000) 2000
time weighted average = 5 mg/m³

Remarks: respirable dust fraction

- US. OSHA Table Z-3 (29 CFR 1910.1000) 2000
time weighted average = 15 mg/m³

Remarks: Total dust

- US. OSHA Table Z-1-A (29 CFR 1910.1000) 1989
time weighted average = 5 mg/m³

Remarks: respirable dust fraction

- US. OSHA Table Z-1-A (29 CFR 1910.1000) 1989
time weighted average = 15 mg/m³

Remarks: Total dust

Carbon black

- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006
Permissible exposure limit = 3.5 mg/m³

- US. OSHA Table Z-1-A (29 CFR 1910.1000) 1989
time weighted average = 3.5 mg/m³

- US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A 06 2008
time weighted average = 3.5 mg/m³

- US. ACGIH Threshold Limit Values 12 2010
time weighted average = 3 mg/m³

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SAEL = Solvay Acceptable Exposure Limit, Time Weighted Average for 8 hour workdays. No Specific TLV STEL (Short Term Exposure Level) has been set. Excursions in exposure level may exceed 3 times the TLV TWA for no more than a total of 30 minutes during a workday and under no circumstances should they exceed 5 times the TLV TWA.

8.2. Engineering controls

- Provide local ventilation appropriate to the product decomposition risk (see section 10).

- Provide appropriate exhaust ventilation at places where dust is formed.

- Refer to protective measures listed in sections 7 and 8.

8.3. Personal protective equipment

8.3.1. Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

- Use only respiratory protection that conforms to international/ national standards.

- Use NIOSH approved respiratory protection.

- Respirator with combination filter for vapour/particulate (EN 141).

8.3.2. Hand protection

- When handling hot material, use heat resistant gloves.

8.3.3. Eye protection

- Safety glasses with side-shields

- Dust proof goggles, if dusty.

8.3.4. Skin and body protection

- Long sleeved clothing

8.3.5. Hygiene measures

- When using do not eat, drink or smoke.

- Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information

Appearance : fabricated part

Color: black

Odor: odorless

9.2. Important health safety and environmental information

pH : *Remarks*: not applicable

Boiling point/boiling range : *Remarks*: not applicable

Flash point : *Remarks*: not applicable

Flammability : *Upper explosion limit.*
Remarks: no data available
Lower explosion limit.
Remarks: no data available
Remarks: The product is not flammable.

Explosive properties : *Explosion danger.*
Remarks: no data available

Vapor pressure : *Remarks*: not applicable

Relative density / Density : 1.29 *Remarks*: no data available

Solubility(ies) : Water *Remarks*: negligible

Partition coefficient: n-octanol/water – *Remarks*: not applicable

Vapour density : *Remarks*: not applicable

9.3. Other data

: 220 °C (428 °F) *Remarks*: Softening point

Decomposition temperature : > 430 °C (> 806 °F) *Remarks:* Extended period of exposure (ca. 1 hour).

10. STABILITY AND REACTIVITY

10.1. Stability

- Stable under normal conditions.
- Hazardous Polymerisation/Polymerization: no

10.2. Conditions to avoid

- Heat, flames and sparks.
- To avoid thermal decomposition, do not overheat.
- Avoid dust formation.
- The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polyvinyl chloride (PVC), polypropylene, etc. If PVC or any other resin with a decomposition temperature below 371°C / 700°F is molded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding and other processing equipment prior to changeover and prevent cross contamination of material handling systems.
- Keep at temperature not exceeding: > 430 °C (> 806 °F)

10.3. Materials to avoid

- Polymeric resins

10.4. Hazardous decomposition products

- Carbon monoxide, Sulphur oxides, Hydrocarbons, Carbon dioxide (CO₂), The release of other hazardous decomposition products is possible.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Acute oral toxicity

- *Remarks:* no data available

Chronic toxicity

- *Remarks:* This product may contain carbon black. Carbon black has been shown to cause lung tumors in rats at high exposure concentrations. These concentrations exceed the capacity of the lung to clear the carbon black particles, thus resulting in significant toxicity. The International Agency for Research on Cancer (IARC) has evaluated carbon black found it to be possibly carcinogenic to humans. (Group 2B).

Genetic toxicity in vitro

- no data available

Remarks

- The product is biologically inert.
- Because the components are encapsulated in the resin and may not be bioavailable in the body, they may not exert the above mentioned health effects.
- Product dust may be irritating to eyes, skin and respiratory system.
- Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Acute toxicity

- Remarks: no data available

Chronic toxicity

- Remarks: no data available

12.2. Mobility

- Remarks: no data available

12.3. Persistence and degradability

Abiotic degradation

- Result: no data available

Biodegradation

- Remarks: no data available

12.4. Bioaccumulative potential

- Result: no data available

12.5. Other adverse effects

- no data available

12.6. Remarks

- Contains a(many) hazardous substance(s) for the environment.
- Under massive form, product is biologically inert and non-degradable.
- Ingestion of solids may cause harm to wildlife due to intestinal mechanical blockage or starvation from false feeling of satiation.

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

- Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.
- Waste characterizations and compliance with applicable laws and regulations are the responsibility of the waste generator.

13.2. Packaging treatment

- Empty containers.
- Dispose of as unused product.
- For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device or industrial landfill.

13.3. RCRA Hazardous Waste

- Listed RCRA Hazardous Waste (40 CFR 302) - No

14. TRANSPORT INFORMATION

- Sea (IMO/IMDG)
 - not regulated
- Air (ICAO/IATA)
 - not regulated
- U.S. Dept of Transportation
 - not regulated
- It is recommended that ERG Guide number 111 be used for all non-regulated material.
 - Canadian Transportation of Dangerous Goods
 - not regulated

15. REGULATORY INFORMATION

15.1. Inventory Information

- Toxic Substance Control Act list (TSCA)** : - Listed on inventory.
- EU list of existing chemical substances (EINECS)** : - In compliance with inventory.
- Australian Inventory of Chemical Substances (AICS)** : - Listed on inventory.
- Japanese Existing and New Chemical Substances (MITI List) (ENCS)** : - Listed on inventory.
- Korean Existing Chemicals List (ECL)** : - Listed on inventory.
- Philippine Inventory of Chemicals and Chemical Substances (PICCS)** : - Listed on inventory.
- Inventory of Existing Chemical Substances (China) (IECS)** : - Listed on inventory.
- Canadian Domestic Substances List (DSL)** : - Listed on inventory.

15.2. Other regulations

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

not regulated.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required - not regulated.

US. EPA CERCLA Hazardous Substances (40 CFR 302) - not regulated.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Components CAS-No. Concentration

Carbon black 1333-86-4 $\geq 0.0 - < 1.0 \%$

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Components CAS-No. Concentration

Carbon black 1333-86-4 $\geq 0.0 - < 1.0 \%$

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product contains a chemical known in the State of California to cause cancer and/or to cause birth defects or other reproductive harm. :

Components CAS-No. Concentration

Carbon black 1333-86-4 $\geq 0.0 - < 1.0 \%$

15.3. Classification and labelling

EC Label - According to Regulation (EC) 1272/2008, as amended

No labelling

16. OTHER INFORMATION

Further information

- Update

Material Safety Data Sheets contain country specific regulatory information; therefore, the MSDS's provided are for use only by customers of the company mentioned in section 1 in North America. If you are located in a country other than Canada, Mexico or the United States, please contact the Solvay Group company in your country for MSDS information applicable to your location.

The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product).

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