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Issue Date: 2015/May/29

# **Safety Data Sheet**

TotalFlash® TPO

# Section 1 Chemical Product and Company Identification

Product/ Chemical Name: Thermoplastic Olefin (TPO)
Chemical Formula: Polymer Preparation Mixture

Other Designations:

Mortar Net Solutions™

**Manufacturer:** 6575 Daniel Burnham Drive Suite G

Portage, Indiana 46368 (800) 664-6638

(219) 787-5088 www.mortarnet.com

### \*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*

Emergency Telephone: 1-336-786-2127

Do not allow material to enter streams or waterways per 40 CFR 122.26, "Significant Material". Cover any exposed body areas where skin contact with molten material is possible.

# Section 2 Hazard(s) Identification

Physical HazardsNot classifiedHealth HazardsNot classifiedEnvironmental HazardsNot classifiedOSHA Defined HazardsCombustible dust

**Label Elements** 

Hazard Symbol None Signal Word Warning

**Hazard Statement** If small particles are generated during further processing, handling or by other means, this may form combustible

dust concentrations in air.

**Precautionary Statement** 

**Prevention** Keep away from heat/ sparks/ open flames/ hot surfaces. – No smoking. Keep container

tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to

minimize explosion hazard. Observe good industrial hygiene practices.

**Response** Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate

media to extinguish.

**Store** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.





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Hazard(s) Not Otherwise Classified

None known

(HNOC)

**Supplemental Information:** No ingredient(s) of unknown acute toxicity is intentionally used in this product.

## **Section 3 Composition/Information on Ingredients**

Reportable Hazardous Substances: No Reportable Hazardous Substances\*

Base Component(s) of Mixture

Chemical Name	Common Name	CAS Number	%
1- Propene, Polymer with ethane	copolymer polypropylene	9010-79-1	**
Etheylene octane	ethylene based rubber	26221-73-8	**
Butene		25087-34-7	**
Propylene copolymer		25038-36-2	**

<sup>\*</sup> There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

# **Section 4 First Aid Measures**

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin Contact** Wash off with soap and water, Get medical attention if irritation develops and persists.

**Eye Contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops

and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most Important Symptoms/ Effects, Acute and Delayed

Dust may irritate the respiratory tract, skin and eyes.

Indication of Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

General Information Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

<sup>\*\*</sup>Designates that a specific chemical identity and or percentage of composition has been withheld as a trade secret.



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## **Section 5 Fire-Fighting Measures**

**Suitable Extinguishing Media** 

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media

carefully to avoid creating airborne dust.

**Unsuitable Extinguishing Media** 

Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the

Chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to

health may be formed.

Special Protective Equipment and Precautionfor Firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case

of fire.

Fire-Fighting

**Equipment/Instructions** 

In case of fire and/or explosion do not breathe fumes. Move containers from

fire area if you can do so without risk.

**Specific Methods**Use standard firefighting procedures and consider the hazards of other

involved materials.

General Fire Hazards May form combustible dust concentrations in air.

### **Section 6 Accidental Release Measures**

Personal Precautions, Protective Equipment and Emergency Procedures

Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section

8 of SDS.

Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources (no smoking, flares, sparks, or flames

in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with

compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material

into waste container. Following product recovery, flush area with water

Small Spills: Sweep up or vacuum up spillage and collect in suitable container

for disposal

Never return spills to original containers for re-use. For waste disposal, see section

13 of SDS

**Environmental Precautions** 

Avoid discharge into drains, water sources, or onto the ground.



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## **Section 7 Handling and Storage**

**Precautions for Safe Handling** 

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to friction or transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces.— No smoking. Explosion-proof general and local exhaust ventilation. Do not breathe dust. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of SDS).

# Section 8 Exposure Controls/ Personal Protection

Occupational Exposure Limits U.S. OSHA (29 CFR 1910.1000)

Components

Type Value Form

Nothing to report

U.S. ACGIH Threshold Limit Values

**Components** Typ

Value Form

Nothing to Report

U.S. NIOSH: Pocket Guide to Chemical Hazards

**Components** Type

Value Form

Nothing to report

Biological Limit Values No biological exposure limits noted for the ingredient(s).

Exposure Guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline

silica should be monitored and controlled.

**Appropriate Engineering** 

Controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



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#### Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection Wear Safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection** For prolonged or repeated skin contact use suitable protective gloves.

**Other** Wear suitable protective clothing.

**Respiratory Protection** If engineering controls do not maintain airborne concentrations below recommended

exposure limits (where applicable) or to an acceptable level (in countries where exposure

limits have not been established), an approved respirator must be worn.

**Thermal Hazards** Wear appropriate thermal protective clothing, when necessary.

**General Hygiene Considerations** When using, do not eat, drink or smoke. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants.

# **Section 9 Physical and Chemical Properties**

**Appearance** 

Physical State Solid

**Form** Solid sheets, rolls

**Color** Black

Odor Odorless; mild odor
Odor Threshold Not available
Ph. Not available

Melting Point/ Freezing Point 125-140°C (255-280°F)

Initial Boiling Point and Boiling Range Not available

Flash Point above 290°C (555°F) decomposition occurs and flash of fumes may occur.

Evaporation Rate Not available Flammability (Solid, Gas) Not available

#### **Upper/Lower Flammability or Explosive Limits**

Flammability Limit- Lower (%)
Flammability Limit- Upper (%)
Explosive Limit- Lower (%)
Not available
Explosive Limit- Upper (%)
Not available



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Vapor Pressure
Vapor Density
Relative Density
Solubility(les)

Neglible
Not available
0.92 – 1.8 g/cm³

Solubility (water) Neglible
Partition Coefficient Not available

(N-Octanol/Water)

Auto-Ignition Temperature>320°C(>610°F)Decomposition Temperature>290°C(>555°F)ViscosityNot available

Other Information

**Explosive Properties**Not explosive
Not oxidizing

# Section 10 Stability and Reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage, and

transport.

Chemical Stability Material is stable under normal conditions.

Possibility of Hazardous

Reactions Conditions to avoid Keep away from heat, sparks and open flame; minimize dust generation and accumulation. Contact with

incompatible materials.

**Incompatible Materials** Strong oxidizing agents.

**Hazardous Decomposition**No hazardous decomposition products are known.

### **Section 11 Toxicological Information**

**Product Information on Likely Routes of Exposure** 

**Inhalation Skin** No adverse effects due to inhalation are expected.

Contact Eye Direct contact with eyes may cause temporary irritation.

**Contact** No adverse effects due to skin contact are expected.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics Dusts may irritate the respiratory tract, skin and eyes.



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**Information on Toxicological Effects Acute** 

Toxicity Components

Species Test Results

Not Classified

**Skin Corrosion/ Irritation** Prolonged skin contact may cause temporary irritation.

**Serious Eye Damage Irritation**Direct contact with eyes may cause temporary irritation.

Respiratory or Skin Sensitization

**Respiratory** Not a respiratory sensitizer.

**Skin** This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or

genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

1- propene, polymer with ethane (90109-79-1)

3 Not classifiable as to carcinogenicity to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive Toxicity This product is not expected to cause reproductive or

developmental effects.

Specific Target Organ Toxicity-

**Exposure** 

Not classified single.

Specific Target Organ Toxicity-

Exposure

Not classified repeated.

**Aspiration Hazard** Not an aspiration hazard.

**Section 12 Ecological Information** 

**Ecotoxicity** This product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Components Species Test Results

Nothing to report

Persistence and Degradability No Data Available

**Bioaccumulative Potential** No Data Available

Mobility in Soil No Data Available

Other Adverse Effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential,

endocrine disruption, global warming potential) are expected from this component.





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# **Section 13 Disposal Considerations**

**Disposal Instructions**Collect and reclaim or dispose in sealed containers at licensed

waste disposal site. Dispose of contents/container in accordance with local/regional/

national/international regulations.

**Local Disposal Regulations** Dispose in accordance with all applicable regulations.

Hazardous Waste Code

This waste code should be assigned in discussion between the user, the producer and

the waste disposal company.

Waste From Residues/

**Unused Products** 

Dispose of in accordance with local regulations. Empty containers or liners may retain

some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated Packaging Since emptied containers may retain product residue, follow label warnings even after

container is emptied. Empty containers should be taken to an approved waste handling

site for recycling or disposal.

### **Section 14 Transportation Information**

DOTNot regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

Transport in Bulk Not applicable

According to Annex II of MARPOL

73/78 and IBC Code

# **Section 15 Regulatory Information**

**US Federal Regulations** 

OSHA When used for its intended purposes, this material is not classified as hazardous in accordance

with OSHA 29 CFR 1910.1200.

TSCA Listed on the United States TSCA (Toxic Substances Control Act) inventory.

CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances

under the Comprehensive Environmental Response Compensation and Liability ACT (CERCLA) (40 CFR 302)

or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**EPCRA** This material contains no extremely hazardous substances.

SARA Section Acute Health Hazard: No
311/312 Hazard Chronic Health Hazard: No

Classes Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

**SARA Section** This material contains no chemicals subject to the supplier notification requirements of SARA 313.

313 Toxic Toxic Release Program



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**Release Inventory** 

Conflict Minerals (Dodd-Frank Wall Street Reform and Consumer Protection Act, 2010

Conflict minerals, which include columbite-tantalite (coltan) [source for tantalum], cassiterite [source for tin], wolframite [source for tungsten], gold ore, or their derivatives, are not intentionally used in the manufacture of or formulation of this product.

Clean Water Act (CWA/OPA)

Plastic pellets are defined by the US EPA under the Clean Water Act (40CFR122.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other Clean Water Act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

CPSIA (Consumer Product Safety Improvement Act, 2008)

The following substances, lead [CAS# 7439-92-1] at levels greater than 100ppm (0.01%) and phthalates at levels greater than 1000 ppm (0.1%), are not intentionally used in the manufacture of or formulation of this product. The Toy Safety Standard, ASTM F 963-07, which was made a mandatory CPSC standard by the CPSIA, also states migration limits for seven heavy metals that may be in toy materials. These metals and their respective migration limits are: Antimony (Sb) [CSA# 7440-36-0] <60mg/kg, Arsenic (As) [CSA# 7440-38-2] <25mg/kg, Barium (Ba) [CSA#7440-39-3] <1000mg/kg, Cadmium (Cd) [CSA# 7440-43-9] <75mg/kg, Chromium (Cr) [CSA# 7440-47-3] <60mg/kg, Mercury (Hg) [CSA# 7439-97-6] <60mg/kg, and Selenium (Se) [CSA# 7782-49-2] <60mg/kg. These heavy metals are not intentionally used in the manufacture of or formulation of this product.

Latex

"Natural rubber latex", "dry natural rubber", "synthetic latex", or rubber that contains natural rubber" are not used in the manufacture of or the formulation of this product.

**Ozone-Depleting Substances** 

Class I and Class II ODSs listed in the U.S. Clean Air Act and U.S. EPA regulation 40 CFR Part 82: "Protection of Stratospheric Ozone" are not used in the manufacture of or formulation of this product.

ODSs listed in "The Montreal Protocol on Substances that Deplete the Ozone Layer" (2000) are not used in the manufacture of or formulation of this product.

ODSs listed in Regulation (EC) No 1005/2009 "Substances that Deplete the Ozone Layer" are not used in the manufacture of or formulation of this product.



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#### **U.S. State Regulations**

California Not listed
Massachusetts Not regulated
New Jersey Not listed
Pennsylvania Not listed
Rhode Island Not regulated

California Safe Drinking Water and Toxic Enforcement Act of 1986 Substances and chemicals which are known to the State of California to cause cancer and/or reproductive toxicity under California Proposition 65 are not intentionally added in the manufacture of or formulation of this product.

CONEG (Coalition of Northern Governors)

(Proposition 65)

The following substances, cadmium [CSA# 7440-43-9], hexavalent chromium [CAS# 1333-82-0], lead [CAS# 7439-92-1], and mercury [CAS# 7439-97-6], are not intentionally used in the manufacture of or formulation of this product exceeding the regulated levels <100 ppm (<0.01%) set forth by the Toxics in Packaging Clearinghouse (TPCH).

#### **International Regulations**

REACH (Regulation (EC) No 1907/2006)

Substances and chemicals sold into Europe, or produced in Europe, individually or as part of preparations will be regulated according to the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) legislation (please visit <a href="http://ec.europa.eu/enterprise/reach/indexen.htm">http://ec.europa.eu/enterprise/reach/indexen.htm</a> for further information). We sell thermoplastic compound preparations into the European market, or produced in Europe, and as such we confirm that all substances of this preparation are compliant with the pre-registration requirements of REACH, and that we have the intentions to proceed with the registration of these substances, or to procure substances only from suppliers from which confirmation has been received that the suppliers are aware of their REACH requirements, that they have preregistered and/or will timely register their substances.

Substances of Very High Concern (SVHC): This product does not contain any of the candidate chemicals proposed to be Substances of Very High Concern above the 1,000 ppm (0.1%) threshold as stated in REACH (Article 57, Regulation No 1907/2006) determined either through (i) non-use of the substance, (ii) mass balance calculation, or (iii) specific testing.

RoHS 2 (Directive 2011/65/EU) and ELV (End-of Life Vehicles, Directive 200/53/EC) The following chemicals and substances are not intentionally used in the manufacture of or formulation of this product exceeding the regulated levels listed below as set forth in RoHS 2, "restriction of the use of certain hazardous substances in electrical and electronic equipment", and determined either through (i) non-use of the substance, (ii) mass balance calculation, or (iii) specific testing.

 cadmium hexavalent
 100ppm (0.01%) [CAS# 7440-43-9]

 chromium
 1000ppm (0.1%) [CAS# 1333-82-0]

 lead
 1000ppm (0.1%) [CAS# 7439-92-1]

 mercury
 1000ppm (0.1%) [CAS# 7439-97-6]

 polybrominated biphenyls (PBB)
 1000ppm (0.1%) [CAS# 59536-65-1]

polybrominated diphenyl enters (PBDE) 1000ppm (0.1%) \*



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\*PBDE includes the following ethers; bromodiphenly ether [CAS# 101-53-3], dibromodiphenyl ether [CAS# 205-47-7], tribromodiphenyl ether [CAS# 40088- 47-9], pentabromodiphenyl [CAS# 32534-81-9], hexabromodiphenyl ether [CAS# 36483-60-0], heptabromodiphenyl ether [CAS# 68928-80-3], octabromodiphenyl ether [CAS# 32536-52-0], nonabromodiphenyl ether [CAS# 63936-56-1], decabromodiphenyl ether [CAS# 1163-19-5],

Packaging and Packaging Waste-EU Directive 94/62/EC (as amended) Cadmium, chromium (VI), lead and mercury are not intentionally used in the manufacture of or the formulation of this product. This product meets the year 2001 requirements of less than 100 ppm (0.01%) for total incidental cadmium, chromium (VI), lead, and mercury. In addition, this product has the potential to be recycled according to these requirements.

# **Section 16 Other Information**

Prepared by Revision Notes Further Information Quality Departments

Any questions call 336-786-2127

This Safety Data Sheet conforms to regulation 1907/2006/EC (REACH). This product has been classified in accordance with European CLP Regulations (1272/2008EC) and the U.S. Hazard Communication Standard (29 CFR 1910.1200).

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Process, and Handling of Combustible Particulate Solids, for safe handling.

**HMIS® Rating** 

Health: 0 – Minimal Hazard – No significant risk to health

Flammability: 1 – Slight Hazard Physical hazard: 0 – Minimal Hazard

Personal protection: X

**NFPA Rating** 

Health: 0 – Exposure could cause irritation but only minor

residual injury even if no treatment is given.

Flammability: 1 – Must be preheated before ignition can occur.

Instability: 0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.

Disclaimer

UPC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information given is based on data available for the material, the components of the material, and similar materials.

material, and similar materials.