1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
APEX

Product Name
APEX RE 8003 WHITE 1326

Description
PVC COMPOUND

Other means of identification
Product Code
1050308

Recommended use of the chemical and restrictions on use
Recommended use
Production of polymeric products.

Uses advised against
None known

Details of the supplier of the safety data sheet
Manufacturer
Teknor Apex Company
505 Central Avenue
Pawtucket, RI 02861
USA
800-556-3864

SDS Contact (email of responsible person)
TeknorSDS@TeknorApex.com

Emergency telephone number

ChemTel 24-Hr Emergency Response Telephone Number:
USA Only: 800-255-3924
International: 001-813-248-0585
China: 400-120-0751
Contract #: MIS0006505

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance - Pellets
Physical State - Solid
Odor - No data available

Hazards not otherwise classified (HNOC)
None known
Unknown acute toxicity
Not Applicable

Other Information
None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

The components of this product are embedded in an impervious polymer matrix and are therefore not biologically available. Any hazardous constituents are fixed in the polymer matrix and therefore present a negligible exposure risk under normal conditions of processing and handling. Additives contained in this product do not pose a risk to health unless they are liberated during processing (fumes from melting, dusts). Suitable Industrial Hygiene precautions should be implemented to prevent (respirable) dust and fume exposures. Exposure to (melting) fumes should be kept as low as possible, using suitable ventilation equipment. Dusts and fumes created from secondary processing may be irritating to respiratory tract and skin and should be considered as potentially hazardous. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin bis (2-ethylhexyl mercaptoacetate)</td>
<td>10584-98-2</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Calcium Stearate</td>
<td>1592-23-0</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Glycerin Monostearate</td>
<td>31566-31-1</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Monobutyltin tris (2-ethylhexyl mercaptoacetate)</td>
<td>26864-37-9</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First Aid Measures

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.

Skin Contact
Wash with soap and water.

Inhalation
None under normal use conditions.

Ingestion
Get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media
No information available.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products

Explosion data
No information available.
Sensitivity to Static Discharge
Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective equipment and precautions for firefighters
Use personal protective equipment as required. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment as required.

Other Information
Not Applicable.

Environmental Precautions

Environmental Precautions
Do not allow into any sewer, on the ground or into any body of water.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up
Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed.

Incompatible Materials
None known based on information supplied

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin bis (2-ethylhexyl mercaptoacetate)</td>
<td>STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*</td>
<td>TWA: 0.1 mg/m³ Sn (vacated) TWA: 0.1 mg/m³ Sn (vacated) S*</td>
<td>IDLH: 25 mg/m³ Sn TWA: 0.1 mg/m³ except Cyhexatin Sn</td>
</tr>
<tr>
<td>Calcium Stearate</td>
<td>TWA: 10 mg/m³ except stearates of toxic metals</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerin Monostearate</td>
<td>TWA: 10 mg/m³ except stearates of toxic metals</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Monobutyltin tris (2-ethylhexyl mercaptoacetate)</td>
<td>STEL: 0.2 mg/m³ Sn TWA: 0.1 mg/m³ Sn S*</td>
<td>TWA: 0.1 mg/m³ Sn (vacated) TWA: 0.1 mg/m³ Sn (vacated) S*</td>
<td>IDLH: 25 mg/m³ Sn TWA: 0.1 mg/m³ except Cyhexatin Sn</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

| Eye/face Protection | Wear safety glasses with side shields (or goggles). |
| Skin and Body Protection | No special technical protective measures are necessary. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. If exposure limits are |
exceeded or irritation is experienced, ventilation and evacuation may be required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Pellets</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks - Method</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Negligible</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Avoid overheating to minimize fume production.

**Incompatible Materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide (CO2), HCl, Trace Benzenes, Aliphatic hydrocarbons, Aromatic hydrocarbons, Isobutyrate, Cyanide

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Inhalation**

Avoid breathing vapors or mists.
Eye contact  No data available.
Skin Contact  No data available.
Ingestion  No data available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin bis (2-ethylhexyl mercaptoacetate)</td>
<td>= 510 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10584-98-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Stearate</td>
<td>&gt; 10 g/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1592-23-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms  No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization  No information available.
Germ cell mutagenicity  No information available.
Carcinogenicity  No information available.
Reproductive toxicity  No information available.
STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Aspiration hazard  Not Applicable.

Numerical measures of toxicity - Product Information
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

<table>
<thead>
<tr>
<th>Component</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin bis (2-ethylhexyl mercaptoacetate)</td>
<td>-</td>
<td>LC50: =11.7 mg/L (Brachydanio rerio, 96 h, static)</td>
<td>EC50: =0.035 mg/L (48h)</td>
</tr>
<tr>
<td>10584-98-2 ( &lt;2 )</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility
No information available.

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes  Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging  Dispose of in accordance with federal, state and local regulations.
15. REGULATORY INFORMATION

International Inventories
TSCA Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Acute Health Hazard NO
Chronic Health Hazard NO
Fire hazard NO
Sudden release of pressure hazard NO
Reactive Hazard NO

US State Regulations
California Proposition 65
As formulated this product does not contain any Proposition 65 chemicals

Other Regulations
EU Regulation (EC) No. 1907/2006 (REACH)
As formulated, this product does not contain any ingredients listed as an SVHC above 0.1%.

EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)
As formulated, this compound complies with the EU RoHS Directive (2011/65/EU) (RoHS 2) and does not contain any restricted materials above threshold levels. The RoHS directive restricts the use of Lead, Cadmium, Chrome VI, Mercury, PBBs and all PBDE materials.

Conflict Minerals
As formulated, the raw materials used in this product do not intentionally contain any of the "Conflict Minerals". Conflict Minerals consist of Gold, Columbite-Tantalite (Tantalum), Casserite (Tin), and Wolframite (Tungsten) that originate from the Democratic Republic of Congo or adjoining countries.

16. OTHER INFORMATION

NFPA  Health Hazards 0  Flammability 1  Instability 0  Physical and Chemical Properties -

Revision Date 27-Jan-2017

Disclaimer
To the best of our knowledge, the information contained herein is correct and accurate but does not purport to be all
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End of Safety Data Sheet