Material Safety Data Sheet

HEXPOL Compounding
Burton Rubber Processing
Polymers Code: 74860-4 (2)

Quick Identifier (In-Plant Common Name or Customer Number) 25330

Manufacturer's Name

HEXPOL COMPOUNDING
BURTON RUBBER PROCESSING

Address
14330 Kinsman Road
Burton, OH 44021

Emergency Telephone No. (440) 834-4644 or (901) 285-4353
Other Information Calls (440) 834-4644

Date Prepared 10/19/11

SECTION 1 - IDENTITY

Common Name (Used on label) ASTM-E119-CLASS A
(Trade Name & Synonyms) CAS No. NA

Chemical Name Polymeric mixture
Chemical Family Polymeric mixture

Rubber Compound (Mixture)

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (Chemical & Common Name(s))

This MSDS applies to non-commercial compounds provided to HEXPOL Compounding-Burton Rubber Processing customers for evaluation purposes only. This material is a polymeric compound to which commercial reinforcing agents, fillers, stabilizers, vulcanizing agents, lubricants, processing aids, and plasticizers may have been added. This compound contains Carbon Black, which is listed by IARC as a Group 2B carcinogen. These compounds are in the unvulcanized form. This experimental mixture has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. However, some gases or vapors may be released upon heating or vulcanization and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respirator program, etc.) to protect employees from exposure. (See Section 7 - Special Precautions). Possible hazards of the components may include irritants, sensitizers, highly toxic and toxic materials, corrosives, target organ effects, and carcinogens therefore prudent laboratory practices should be used. If symptoms of exposure persist contact the EH&S department at the above emergency telephone number.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point NA Specific Gravity (H2O=1) NA Vapor Pressure (mm Hg) NA
Percent Volatility Volume (%) NA Vapor Density (Air=1) Solid Evaporation Rate Solid
Solubility in Water Insoluble Reactivity in Water NONE KNOWN
Appearance and Odor Experimental Elastomers Compounds are supplied in solid form and are typically black in color but can vary depending on the formulation. Typically there is mild odor but may have peroxide, petroleum, or pinetar odors.
Flash Point Unknown Flammable Limits in Air % by Volume NA Lower Upper Extinguisher Media All Common Auto-Ignition Temperature Unknown
Special Fire Fighting Procedures Self-contained breathing apparatus should be worn to prevent inhalation of smoke and decomposition products.
Unusual Fire and Explosion Hazards None Known
SECTION 4 - PHYSICAL HAZARDS

PRODUCT: ASTM-E119-CLASS A

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Stable</th>
<th>Conditions</th>
<th>To Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility</td>
<td>(Materials to Avoid)</td>
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</table>
| Gases and/or vapors produced when noncommercial compounds are heated to decomposition temperatures will depend on the specific formulation. Typical fumes and vapors from the experimental elastomer may contain, but are not limited to, oxides of carbon, nitrogen, zinc, phosphorous, antimony, and/or sulfur, hydrogen bromide, hydrogen cyanide, hydrogen fluoride, hydrochloric acid, antimony chloride, antimony bromide, acetic acid, acrylates, silicon dioxide, and aromatic and aliphatic hydrocarbons.

| Hazardous Polymerization | May Occur | Conditions | Will Not Occur | To Avoid |

SECTION 5 - HEALTH HAZARDS (See Section 2)

Possible routes of entry include skin & eye contact, inhalation of process vapors, and ingestion. Experimental compounds are supplied in solid form and are not expected to result in overexposure at ambient temperatures. No adverse health effects are expected during normal processing when potential exposures are eliminated by good industrial hygiene practices and well ventilated conditions. At processing temperatures, the combined ingredients may emit fumes and vapors that may cause irritation to the eyes, skin, nose, throat, and respiratory tract. Processing under conditions of inadequate ventilation may produce symptoms of nausea, dizziness, or headaches. Typically these effects are reversible upon removal from exposure and no lasting effects are expected.

Threshold Limit Value Not Established

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<tr>
<th>Signs &amp; Symptoms of Exposure</th>
<th>1. Acute Overexposure</th>
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<tbody>
<tr>
<td>Medical Conditions Generally aggravated by Exposure</td>
<td>None Known</td>
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Although this compound is not identified as a carcinogen, it may contain components known to NTP, IRAC and OSHA as carcinogens or suspect carcinogen.

OSHA Permissible Exposure Limit NA
ACGIH Threshold Limit Value NA
Other Exposure Limit Used NA

Emergency and First Aid Procedures

1. Inhalation Consult physician if respiratory irritation occurs.
2. Eyes Consult physician if irritation occurs.
3. Skin Physical form should preclude any harmful effect from contact.
4. Ingestion Consult physician.

SECTION 6 - SPECIAL PROTECTION INFORMATION

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<tr>
<th>Respiratory Protection (Specify Type)</th>
<th>May be necessary if mechanical ventilation is insufficient.</th>
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<tbody>
<tr>
<td>Ventilation</td>
<td>Yes</td>
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<tr>
<td>Protective Gloves</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Other Protective Clothing or Equipment None
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: CAUTION: Nitrosamines - considered to be possible human carcinogens - may be formed during processing of rubber compounds. Mixing or contacting this product with nitrates or nitrites, as in salt bath curing, may produce hazardous levels of volatile nitrosamines. Avoid inhaling gases and/or vapors from hot rubber processing - especially during vulcanization.

Steps to be Taken in Case Material is Released or Spilled

- Scoop or shovel material and return to original container.

Waste Disposal Methods

- Dispose of in Accordance with all local, state and federal regulations.

SECTION 8 - REGULATORY INFORMATION

Consult individual component MSDSs or supplier for this information.

The user must determine whether a report is required to EPA for any amounts of this material disposed of or otherwise released into the environment.

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. Information is supplied upon the condition that the persons receiving same will make their own determinations as to its suitability for the purposes prior to use and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of this material.

NOTICE: This notification must remain attached to its accompanying MSDS. If the MSDS is copied or redistributed, a copy of this notification must also be attached.