

Terramix, S.A.

P.O. Box 8-4140/1000 San José, Costa Rica, América Central, Ph (506) 282-9900, Fax (506) 282-3400

MATERIAL SAFETY DATA SHEET

Trade name: Compound Code: SBR Elastomer

CAS N°: NA - Blend

Issue Date: 02/02/1998

Formula Date: 02/02/1998

Supersedes: All previous for this ID.

Section I: Ingredients

(See Section XII)

<i>Chemical name</i>	<i>Haz Status</i>	<i>CAS Number</i>	<i>ACGIH (TLV) mg/cu m</i>	<i>OSHA (PEL) mg/cu m</i>
<i>Styrene Butadiene Polymer</i>		9003-55-8	NA	NA
<i>Zinc Oxide</i>	Z	1314-13-2	10	NA
<i>Stearic Acid</i>		57-11-4	NA	NA
<i>Carbon Black</i>	Y	1333-86-4	3.5	3.5
<i>Naphtenic Oil</i>		64741-96-4	5	5
<i>N-Cyclohexyl-2-benzothiazole sulfenamide</i>		95-33-0	NE	NE
<i>Sulfur</i>		77004-34-9	10	15
<i>Mixed Ditolyl -p- Phenylene Diamine</i>		68478-45-5	NE	NE
<i>Mixture of paraffin and micro-crystalline waxes</i>		63231-60-7	5	5

Notes:

N.E. Not established / NA: Not applicable / NDA: No data available

Hazard Status

Y = Considered hazardous or toxic.

Z = Reportable under SARA title III section 313.

Section II: Physical Data

<i>Appearance:</i> <i>Flexible slabs</i>	<i>Odor:</i> <i>None.</i>	<i>Melting Point:</i> <i>Not Applicable</i>	<i>Specific Gravity:</i> <i>1.12 – 1.13</i>
<i>Vapor Density:</i> <i>Not Applicable</i>	<i>% Volatile by volume:</i> <i>Not Applicable</i>	<i>Bulk Density</i> <i>Similar to S. Grav.</i>	<i>Boiling Point:</i> <i>Not Applicable</i>
<i>Vapor Pressure:</i> <i>Not Applicable</i>	<i>% Solubility (H₂O)</i> <i>Insoluble</i>	<i>Physical State:</i> <i>Solid</i>	<i>Odor Threshold:</i> <i>NE</i>

Section III: Fire and Explosion Hazard Data

Flash Point and Method:
Not Applicable

Flammable Limits:
Not Determined

Extinguishing Media:

Most fire extinguishing media permitted-water recommended; CO₂ not recommended.

Special Fire Fighting Procedures:

Wear positive pressure or self-contained breathing apparatus.

Unusual Fire or Explosion Hazards:

Combustion products will include carbon monoxide, carbon dioxide, nitrogen dioxides and hydrogen sulfide.

NFPA Fire Hazards Identification System:

Health = 1 Flammability = 1 Reactivity = 0 Fire = 0

Section IV: physiological Effects

LD50 oral (Ingestion):
Not Determined

LD50 Dermal (Skin Contact)
Not Determined

LD50 (Inhalation)
Not Determined

Primary Routes of Exposure:
Skin exposure, Inhalation, Ingestion

Threshold Limit Value:
Not Determined

This is a compounded rubber product. The chemical substances are dispersed in the polymer and would not be released in this form. The processing oil in the product has been formulated from base stocks that are severely hydrotreated, severely solvent extracted and/or processed by mild hydrotreatment and extraction. The oil in this product contains less than 0.1 weight percent polynuclear aromatic compounds and therefore is not considered as carcinogenic under Hazard Communication Standard Title 29 CFR 1910.1200.

Section V: Emergency First Aid Procedures

None expected to be necessary.

Section VI: Physical Hazards

Not Determined.

Section VII: Special Protection Information***Ventilation:***

When heated, provide ventilation to remove fumes from the area.

Respiratory:

Usually Not Required

Eye Protection:

Yes

Protective Gloves:

Usually Not Required

Other:

Not Applicable.

All chemicals should be handled so as to prevent eye contact and excessive or repeated skin contact. Appropriate eye and skin protection should be employed. Employees who have prolonged contact with this material should practice good hygiene by frequent washing of the hands and arms with soap and water. Remove contaminated clothing and launder before wearing again. Shower at the end of each work day. Wear gloves if practical.

Section VIII: Chemical Reactivity

Conditions Causing Instability:

Excessive heat. Open flames. Product is stable to ambient temperature and pressure.

Incompatibility (materials to avoid):

None known.

Hazardous Decomposition Products:

Carbon Monoxide, Carbon Dioxide, Sulfur Dioxides, Nitrogen oxides and products from incomplete combustion.

Special Sensitivity:

Not Determined.

Section IX: Storage Information

Precautions to be taken in handling and storing:

Keep protected from the sun light and in a cool place.

Section X: Spill, Leak and Disposal Information

Steps to be taken in case material is released:

Dispose of in accordance with local regulations.

Section XI: Shipping Information

Keep product away from direct sunlight rays and in a cool and ventilated area

Section XII: Additional Comments

This MSDS does not include information of the suitability of the products mentioned for any specific application nor any precaution that may be appropriate for the use of finished products. The conditions under which Terramix, S.A. products are processed and used are beyond the control of Terramix, S.A.

Terramix, S.A. is not aware of any unusual health hazards associated with the handling of any type of raw product listed on the MSDS. However, where there is hazard information know to Terramix, S.A. it is identified as prudently as possible.

The precise composition of this product is proprietary information. A more complete disclosure will be provided to a physician or nurse in the event of a medical emergency.

End line
