

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S INFORMATION

Manufacturer's Name	PermaLife Products LLC
Address	7000 Boulevard East Guttenberg, NJ 07093
Emergency Telephone Number	(201) 520-0220
Emergency Fax Number	(201) 854-7937 or (201) 854-8854

PRODUCT AND TRADE NAME

Identity: PROCESSED AND COLORIZED WHOLE TIRE GRANULES (i.e. Pour & Play and 10/14 crumb rubber)	Reprocessed Ground Rubber, coated with an iron oxide dispersion
Chemical Name: NA	Substrate is a mixture of natural and synthetic rubbers, carbon black and oils coating is a pigmented, polymerized dried film

Product Classified as Hazardous by OSHA Standards	NO
Type of Hazard:	NONE

OCCUPATIONAL CONTROL PROCEDURES

Eyes:	Safety glasses Recommended only when handling large quantities, i.e. during installation
Skin:	No special requirements; wash thoroughly after handling
Inhalation:	No special protective devices needed under normal use and ambient conditions. Respiratory devices recommended when handling large quantities
Ventilation:	None required
Storage:	Exposure to high heat should be avoided
Steps to be taken in case product is spilled	No unusual hazard
Waste Disposal Method:	In accordance with Federal, State and Local regulations.

**POSSIBLE ROUTES OF ENTRY AND EMERGENCY
AND FIRST AID PROCEDURES**

Inhalation:	Inhalation under ambient conditions and typical application and use is normally not a problem
Eyes:	Flush with water; see a physician if irritation persists
Skin:	Maintain good personal hygiene when working with these materials. Typical use presents no problems.
Ingestion:	Not applicable; coating film is inert, non-toxic, and environmentally compatible.

TOXICOLOGY OF PRODUCT

<u>Listing</u>	<u>YES</u>	<u>NO</u>
Listed under US National Toxicology		x
Listed under US I.A.R.C. as possible carcinogen		x
Listed under US OSHA		x

PHYSICAL AND CHEMICAL PROPERTIES

US OSHA Permissible Exposure Level:	Not Established
US ACGIH T.L.V.	Not Established
Signs and Symptoms of Exposure:	Not Established
Medical Symptoms Aggravated by Exposure:	Not Established
Appearance and Odor:	Black or colored: Slight rubber and or ammonia odor upon opening bag, dissipates upon installation
Specific Gravity	1.14 +/- 0.03
Auto Ignition Temperature:	700 deg. F
Flashpoint (COC):	475 deg F
Stability:	Stable
Solubility in water:	Nil
Wt. % Volatile:	< 1% primarily water
Hazardous Polymerization: (PVC) Poly Vinyl chloride	None

FIRE PROTECTION INFORMATION

Hazardous Decomposition Products if Ignited **PRODUCT TESTED TO BE NON FLAMMABLE AS PER ASTM D 2859** Carbon monoxide and dioxide; various hydrocarbons and partially oxidized hydrocarbons

Recommended Fire Extinguishing Agents And Special Procedures: All fire extinguishing media permitted. Full emergency equipment with self containing breathing apparatus should be worn to protect fire fighters from any hazardous decomposition/combustion bi-products.

Extinguishing Media: CO2, dry chemical, water spray/fog of foam

COMPOSITION

Components presenting a Significant Hazard: Not Applicable

<u>PRINCIPLE COMPONENTS</u>	<u>PERCENT</u>	<u>CAS # OF COMPONENTS</u>
Reprocessed Rubber (NR-SBR)	40-45	NR: 9003-31-0/SBR: 9003-55-8
Carbon Black	27-33	1333-86-4
Zinc Oxide	2-3	01314-13-2
Sulfur	1.5-2.5	07704-34-9
Stearic Acid	1-2	00057-11-4
Process Oil	10-20	64742-04-7
Pigmented coating	1-5	Proprietary.

WORK/HYGIENE PRACTICES

Employees who have prolonged contact with this stock should practice good personal hygiene by frequently washing hands, arms and exposed areas with soap and water. Remove contaminated clothing and wash before before wearing again. Normal exposure to this product requires no additional hygiene practices.

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