

MATERIAL SAFETY DATA SHEET

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Section I. PRODUCT IDENTIFICATION

CHEMICAL NAME:

Mixtures of thermoplastic polyethylene or thermoplastic polypropylene (with process/performance additives such as processing aid, heat stabilizers, lubricants and pigments), with crumb rubber compounds (containing natural and synthetic rubber that is physically/chemically bound with carbon black, clay, titanium dioxide, zinc oxide, sulfur and petroleum hydrocarbons).

TRADENAME:

PolyCrumb.

Section II. HAZARDOUS INGREDIENTS

The ingredients in this compound may be defined as hazardous under OSHA CFR 29, part 1910.1200. These ingredients are completely encapsulated in an inert plastic matrix, and therefore, under normal conditions of use, do not represent worker exposure to hazardous chemicals.

<u>Chemical Name</u>	<u>0%</u>	<u>Health Hazard</u>	<u>OSHA (PEL) ACGIH (TLV)</u>	<u>Physical Hazard</u>
Carbon Black	16-36	Irritant Carcinogen (IARC 2B)	3.5 mg/M ³ PEL 3.5 mg/M ³ TLV	Non-hazardous
Clay	<1.0	Irritant	N/D	Non-hazardous
Titanium Dioxide	<1.5	Irritant	15 mg/M ³ PEL 10 mg/M ³ TLV 5.0 mg/M ³ STEL	Non-hazardous
Zinc Oxide	<2.0	Irritant	5.0 mg/M ³ PEL 10 mg/M ³ TLV 5.0 mg/M ³ STEL	Non-hazardous
Sulfur	<1.5	Irritant	N/D	Non-hazardous
Petroleum Hydrocarbons	5-13	Irritant Carcinogen Organ Toxin	5.0 mg/M ³ PEL	Combustible liquid

N/D = Not Determined

N/A = Not Applicable

Section III. PHYSICAL DATA

Appearance: Gray or Black Pellet	Bulk Density: N/A
Odor: Rubber	% Volume by Volume: 0%
Melt Point: 260-300°F	% Vapor Density (AIR=1): N/A
Specific Gravity: 959-1.027	Vapor Pressure: N/A
Boiling Point: N/A	% Soluble in H2O: Insoluble

Section IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method	Ignition Temperature	Flammable Limits
N/D	N/D	Lower Upper
		N/D N/D

FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES

Any of the following extinguishing agents may be used to combat fires of this material: Water (dispersed with fog nozzles), carbon dioxide, dry chemical, salon or alcohol foam. Water, dispersed with fog nozzles may be used to cool fire exposed containers and to prevent pressure build-up.

Evacuate unnecessary and unprotected personnel. DO NOT enter confined area without helmet, face-shield, bunker coat, gloves, rubber boots, and a MSHA/NIOSH (Mine Safety and Health Administration/National Institute of Occupational Safety and Health) approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive pressure mode. Fight fire from a safe distance or a protected location.

UNUSUAL EXPLOSIVE HAZARDS

None known.

PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION

Potentially carcinogenic materials (including nitrosamines), carbon oxides (carbon monoxide and carbon dioxide), acrid fumes and flammable hydrocarbons may be liberated as a result of thermal decomposition or combustion. Avoid the smoke and fumes that result from thermal decomposition or combustion.

Section V. HEALTH EFFECTS - Effects of Exposure

LD50 Oral (Ingestion) N/D LD50 Dermal (skin contact) N/D LC50 (Inhalation) N/D

Threshold Limit Value (TLVI) N/D Primary Routes of Exposure N/D
skin (dermal) contact

EFFECT OF CHRONIC (REPEATED) EXPOSURE:

This material contains untested naphthenic or aromatic extender oil. This oil could be released from the surface through skin contact. Prolonged contact with these oils has been shown to cause skin cancer in laboratory studies with animals. Untreated naphthenic and aromatic oils are classified as carcinogenic by IARC (International Agency for Research on Cancer). Prolonged or repeated contact may cause skin irritation or sensitization (allergic skin reaction).

N/D = Not Determined N/A = Not Applicable

IARC has classified carbon black an animal carcinogen and a possible human carcinogens (2B). This classification is based on animal studies only. Not listed by OSHA or NTP. The Presidential/Congressional Commission on Risk Assessment and Risk Management's "Risk Commission" lists carbon black overburden studies as "Not likely to in relevant to human cancer risk if they are the only response observed". (June 13 1996)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Skin disorders

Section VI. EMERGENCY AND FIRST-AID PROCEDURES

EYES:

Not expected to be a problem

SKIN:

Wash thoroughly with soap and water. If reddening or irritation develops, obtain supportive medical attention.

INGESTION:

Not expected to be a problem

INHALATION:

Not expected to be a problem

OTHER INSTRUCTIONS:

Employees who have prolonged contact with material should practice good personal hygiene by frequent washing of hands and arms with soap and water. Remove contaminated clothing and launder before re-wear. Shower at the end of each work day.

Section VII. CHEMICAL REACTIVITY

CONDITIONS CAUSING INSTABILITY

Stable under normal conditions. Avoid temperatures over 250° C (482°F)

INCOMPATIBILITY (MATERIALS TO AVOID)

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

Potentially carcinogenic materials (including nitrosamines). carbon oxides (carbon monoxide and carbon dioxide), acrid fumes, and flammable hydrocarbons may be liberated as a result from thermal decomposition or combustion. Avoid the smoke and fumes that result from thermal decomposition decomposition or combustion.

Section VIII. SPILL, LEAK AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED

Before attempting to clean-up, refer to information and cautions in the other sections of this Material Safety data sheet (MSDS). Use personal protective equipment described in Section IX of this MSDS.

WASTE DISPOSAL:

Reclaim or recycle if feasible. Disposal of material in accordance with applicable federal, state, and local guidelines and regulations.

Section IX. SPECIAL PROTECTION INFORMATION

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. Inhalation of dusts and vapors should be avoided.

EYES:

ANSI approved safety goggles (FPN).

SKIN:

Molten material will produce thermal burns. Use of protective gloves is recommended. Wash hands before eating, smoking or using the restroom.

INHALATION:

Under normal conditions of use, respiratory protection should not be required.

VENTILATION:

Provide sufficient local exhaust/ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

ADDITIONAL PERSONAL PROTECTION INFORMATION:

Employees who have prolonged contact with material should practice good personal hygiene by frequent washing of hands and arms with soap and water. Remove contaminated clothing and laundry before reuse. Shower at the end of each work day.

Section X. STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store indoors in a cool, dry, well-ventilated area under ambient conditions. (Temperatures: 32°-100° F, (0°-38° C). Do not store in direct sunlight. Store and dispose of material in accordance with applicable, federal, state, and local guidelines and regulations. Caution: Composite pellets on floor are slippery and can cause fall and injuries. Other precautions: avoid dispersion of dust. Do not breathe dust. Wear gloves when handling. Note: This material is not intended for use as a food contact surface.

Section XI. ADDITIONAL COMMENTS

Components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

DOT (USA) classification: Not regulated

OSHA (USA) hazardous chemical (s) according to CFR 1910.1200: None

USER'S RESPONSIBILITY

This MSDS cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or better, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

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