

Material Safety Data Sheet

Duxseal**MSDS No. 10418**

Date of Preparation: July 28, 2005

Revision: 4

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Duxseal
Chemical Formula: Mixture
Chemical Family: Rubber Compound
CAS Number: None assigned
Other Designations: Sealing Putty
General Use: Multipurpose Sealing and Caulking Compound

HMIS
H 1
F 1
R 0
PPE †
†Sec. 8

Manufacturer: Parker-Hannifin Corporation, P.O. Box 632340, 403 Industrial Drive, Nacogdoches, TX 75964-2340, Phone (936) 560-8984, FAX (936) 552-8857, Emergency Phone Number (936) 560-8949

☆☆☆☆ **Emergency Overview** ☆☆☆☆☆ **24 HOUR EMERGENCY 1-800-CHEMTREC**

There are no known health hazards associated with this product in designed usage.

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Talc	14807-96-6	25-40
Chlorinated Paraffin	63449-39-8	20-30
Mineral Wool	None Assigned	17-21
Diatomite	61790-53-2	5-8
Non-fibrous Amphiboles	None Assigned	3-5
Dolomite	16389-88-1	2-4
Butyl Rubber	None Assigned	2-4
Quartz	14808-60-7	1-2

Trace Impurities: None Identified

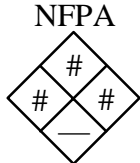
Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Talc	2 mg/m ³ Respirable Dust	none estab.	2 mg/m ³ Respirable Dust	None estab.	none estab.	none estab.	none estab.
Chlorinated Paraffin	none estab.	none estab.	None estab.	None estab.	none estab.	none estab.	none estab.
Mineral Wool	5 mg/m ³ Respirable Dust 15 mg/m ³ Total Dust	none estab.	10 mg/m ³ Total Dust	None estab.	none estab.	none estab.	none estab.
Diatomite	none estab.	none estab.	10 mg/m ³ Total Dust	None estab.	none estab.	none estab.	none estab.
Non-Fibrous Amphiboles	none estab.	none estab.	None estab.	None estab.	None estab.	none estab.	none estab.
Dolomite	None estab.	none estab.	None estab.	None estab.	none estab.	none estab.	none estab.
Butyl Rubber	None estab.	none estab.	None estab.	None estab.	none estab.	none estab.	none estab.
Quartz	0.1 mg/m ³ Respirable Dust	None estab.	0.1 mg/m ³ Respirable Dust	None estab.	none estab.	none estab.	none estab.

Toxicity Data: Talc	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Chlorinated Paraffin	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Mineral Wool	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Diatomite	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Non-Fibrous Amphiboles	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Dolomite	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Butyl Rubber	LD ₅₀ : Not Determined LC ₅₀ : Not Determined
Quartz	LD ₅₀ : Not Determined LC ₅₀ : Not Determined

Section 3 - Physical and Chemical Properties

Physical State: Solid (Putty like consistency)	Water Solubility: Negligible
Appearance and Odor: Brown to Gray-Green Putty – Slight Rubber Odor	Other Solubilities: Not Available
Odor Threshold: Not Available	Boiling Point: Not Determined
Vapor Pressure: Not Available	Freezing/Melting Point: Not Determined
Vapor Density (Air=1): Not Available	Viscosity: Not Determined
Formula Weight: Not Applicable	Refractive Index: Not Available
Density: 14.3 lb/gal	Surface Tension: Not Available
Specific Gravity (H₂O=1, at 4 °C): 1.71	% Volatile: <1 %
pH: Neutral	Evaporation Rate: Nil
	Coefficient Water/Oil: Not Applicable

Section 4 - Fire-Fighting Measures

Flash Point: >200 F	
Flash Point Method: Not Available	
Burning Rate: Not Available	
Autoignition Temperature: Not Determined	
LEL: Not Determined	
UEL: Not Determined	
Flammability Classification: Not Determined	
Extinguishing Media: Foam, Dry Chemical, Carbon Dioxide, Water Spray	
Unusual Fire or Explosion Hazards: Smoke contains hydrogen chloride gas. Wear a self-contained breathing apparatus and full protective gear.	
Hazardous Combustion Products: Hydrogen chloride, carbon monoxide, carbon dioxide and other partially oxidized hydrocarbons may form during a fire.	
Fire-Fighting Instructions: Material is fire retardant and self-extinguishing, but will burn in a large fire. This material can produce acrid smoke in a large fire.	
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode and full protective gear.	

Section 5 - Stability and Reactivity

Stability: This product is stable.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Avoid exposure to strong oxidizing agents.
Conditions to Avoid: Temperatures above 400 F.
Hazardous Decomposition Products: Hydrogen chloride
Substances evolved during Curing: Not applicable. Material does not cure under normal conditions of use.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Eye and Skin Contact, Inhalation

Target Organs: Eyes, Skin and Upper Respiratory System.

Acute Effects: There are no anticipated acute health hazards when this material is handled within the normal range of usage.

The talc, mineral wool, diatomite and quartz in this mixture pose a health hazard in the form of dust. These four compounds are bound within the putty and no respiratory hazards are expected.

Inhalation: May cause slight respiratory tract irritation.

Eye: Mechanical Irritant.

Skin: May cause slight transitory irritation to sensitive skin.

Ingestion: May cause slight discomfort.

Carcinogenicity: This product contains mineral wool which is considered a possible human carcinogen by IARC based on animal inhalation studies.

Synergistic Effects: None Known

Reproductive Toxin: No

Teratogen: No

Mutagen: No

Medical Conditions Aggravated by Long-Term Exposure: None known

Chronic Effects: There are no anticipated chronic health effects when this material is handled within the normal range of usage.

Talc dust can produce fibrotic lung changes. Mineral wool dust has caused peribronchial sclerosis in animal experiments.

Diatomaceous earth dust may cause fibrosis of the lungs. Prolonged inhalation of quartz may cause silicosis. However, there are no dusts associated with this product.

IARC has classified man-made vitreous fibers (MMVF) as a possible human carcinogen based on animal inhalation studies using ceramic fibers and fiberglass. Several research studies using animals have shown that breathing air borne MMVF does not cause any lung cancer or other lung disease. Industry studies of mineral manufacturing workers are being expanded to investigate what effects other occupational exposures and lifestyle had on these workers. For example, smoking by these workers was found to contribute to the higher incidence of lung cancer.

Emergency and First Aid Procedures

Inhalation: Not considered a hazard under normal conditions of use.

Eye Contact: Flush eyes with clean running water for at least 15 minutes. If irritation persists, consult a physician.

Skin Contact: Wash affected areas with mild soap and warm water.

Ingestion: Drink water and seek emergency medical attention. DO NOT induce vomiting.

Note to Physicians: Not Available

Special Precautions/Procedures: None Known

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: Pick up or sweep up waste.

Small Spills: Pick up or sweep up waste.

Large Spills: Pick up or sweep up waste.

Containment: Not Applicable.

Cleanup: No special personal protective equipment required.

Regulatory Requirements: Comply with Federal, State, Provincial and Local regulations.

Disposal: In manufactured form, not a RCRA regulated waste. Comply with Federal, state, provincial and local regulations.

Recycle when possible. Preferred method of disposal – landfill

Disposal Regulatory Requirements: None known

Container Cleaning and Disposal: No known regulations.

Ecological Information: Not Available

EPA Regulations:

RCRA Hazardous Waste Number: Not applicable

RCRA Hazardous Waste Classification: Not applicable

CERCLA Hazardous Substance: Not applicable

CERCLA Reportable Quantity (RQ): Not applicable

SARA 311/312 Codes: Not applicable

SARA Toxic Chemical (40 CFR 372.65): Not applicable

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ): Not applicable

Clean Water Act: This material is not considered an oil under Section 313 of the CWA

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): See Section 2

OSHA Specifically Regulated Substance (29CFR 1910): See Section 2

State Regulations: None Known

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Not normally required

Ventilation: Not normally required.

Administrative Controls: Not normally required.

Respiratory Protection: Not normally required.

Protective Clothing/Equipment: Gloves and protective eyeglasses with side shields are recommended.

Safety Stations: Not normally required.

Contaminated Equipment: Not applicable

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: None known

Storage Requirements: Store in tightly closed containers.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated

Shipping Symbols:

Hazard Class:

ID No.:

Packing Group:

Label:

Special Provisions (172.102):

Packaging Authorizations

a) Exceptions:

b) Non-bulk Packaging:

c) Bulk Packaging:

Quantity Limitations

a) Passenger, Aircraft, or Railcar:

b) Cargo Aircraft Only:

Vessel Stowage Requirements

a) Vessel Stowage:

b) Other:

Prepared By: Michael Watson, Environmental Engineer

Revision Notes: 07/28/2005

Disclaimer: As of the date of the preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable Federal and State law(s). However, no warranty or representation with respect to such information is intended or given.