Material Safety Data Sheet - MSDS

Duct Seal

Section 1. Chemical Product and Company Identification

Common Name : **Duct Seal**
Synonym : Not available.
Trade name : LHD1, LHD5
Manufactured for : L.H. Dottie Company
6131 S. Garfield Avenue
Commerce, California 90040
Tel: (323) 725-1000

Code : LHD1, LHD5
Validation Date : **2004-10-24.**
In Case of Emergency : **(714) 739-1408**

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Limestone	1317-65-3	40-60	**NIOSH REL (United States, 2001).** TWA: 5 mg/m^3 10 hour(s). Form: Respirable fraction TWA: 10 mg/m^3 10 hour(s). Form: Total **OSHA PEL (United States, 1993).** TWA: 5 mg/m^3 8 hour(s). Form: Respirable fraction TWA: 15 mg/m^3 8 hour(s). Form: Total dust **OSHA PEL 1989 (United States, 1989).** TWA: 5 mg/m^3 8 hour(s). Form: Respirable fraction TWA: 15 mg/m^3 8 hour(s). Form: Total dust
Talc	14807-96-6	15-30	**ACGIH TLV (United States, 2003). :** TWA: 2 mg/m^3 8 hour(s). Form: All forms **NIOSH REL (United States, 2001).** TWA: 2 mg/m^3 10 hour(s). Form: Respirable fraction **OSHA PEL 1989 (United States, 1989).** TWA: 2 mg/m^3 8 hour(s). Form: Respirable dust
Magnesium Aluminum Silicate	12174-11-7	7-10	Not available.
Cellulose	9004-34-6	5-7	**ACGIH TLV (United States, 2003).** TWA: 10 mg/m^3 8 hour(s). Form: All forms **NIOSH REL (United States, 2001).** TWA: 5 mg/m^3 10 hour(s). Form: Respirable fraction TWA: 10 mg/m^3 10 hour(s). Form: Total **OSHA PEL (United States, 1993).** TWA: 5 mg/m^3 8 hour(s). Form: All forms
Distillates (Petroleum), Hydrotreated Light Naphthenic	64742-53-6	3-5	**ACGIH TLV (United States).** TWA: 5 mg/m^3 8 hour(s). **OSHA PEL 1989 (United States).** TWA: 5 mg/m^3 8 hour(s).

This material is classified as hazardous under OSHA regulations.

See Section 8 for Exposure Limits.
See Section 11 for Toxicological Data.

Section 3. Hazards Identification

Physical State and Appearance : Solid.

Emergency Overview : WARNING!
CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER
Risk of cancer depends on duration and level of exposure.

Routes of Entry : Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes : Slightly hazardous in case of eye contact (irritant).

Skin : Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.

Inhalation : Not available.

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Ingestion : Not available.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS**: Classified 1 (Proven for human.) by IARC [Talc]. Classified None. by NIOSH [Talc]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Talc]. Classified 2B (Possible for human.) by IARC [Magnesium Aluminum Silicate].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms : Not available.

See Section 11 for Toxicological Data.

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Notes to Physician : No specific antidote. Medical staff must contact Poison Information Center.

Section 5. Fire Fighting Measures

Flammability of the Product : May be combustible at high temperature.

Auto-ignition Temperature : Not available.

Flash Points : Open cup: 310°C (590°F) (Cleveland.).

Flammable Limits : Not available.

Products of Combustion : These products are carbon oxides (CO, CO_2). Some metallic oxides.

Fire Hazards in Presence of Various Substances : Non-flammable in presence of heat.

Explosion Hazards in Presence of Various Substances : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions : SMALL FIRE: Use dry chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire) : Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards : Not available.

Section 6. Accidental Release Measures

Small Spill and Leak : Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: **Neutralize the residue with a dilute solution of acetic acid.** Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak : Use a shovel to put the material into a convenient waste disposal container. **Neutralize the residue with a dilute solution of acetic acid.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling : Avoid breathing dust.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

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Section 8. Exposure Controls, Personal Protection

Engineering Controls : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes : Safety glasses.

Body : Lab coat.

Respiratory : Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands : Gloves.

Feet : Not applicable.

Protective Clothing (Pictograms) :

Personal Protection in Case of a Large Spill : Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits

Product Name	Exposure Limits
Limestone	**NIOSH REL (United States, 2001).** TWA: 5 mg/m^3 10 hour(s). Form: Respirable fraction TWA: 10 mg/m^3 10 hour(s). Form: Total **OSHA PEL (United States, 1993).** TWA: 5 mg/m^3 8 hour(s). Form: Respirable fraction TWA: 15 mg/m^3 8 hour(s). Form: Total dust
Talc	**ACGIH TLV (United States, 2003). :** TWA: 2 mg/m^3 8 hour(s). Form: All forms **NIOSH REL (United States, 2001).** TWA: 2 mg/m^3 10 hour(s). Form: Respirable fraction **OSHA PEL 1989 (United States, 1989).** TWA: 2 mg/m^3 8 hour(s). Form: Respirable dust
Cellulose	**ACGIH TLV (United States, 2003).** TWA: 10 mg/m^3 8 hour(s). Form: All forms **NIOSH REL (United States, 2001).** TWA: 5 mg/m^3 10 hour(s). Form: Respirable fraction TWA: 10 mg/m^3 10 hour(s). Form: Total **OSHA PEL (United States, 1993).** TWA: 5 mg/m^3 8 hour(s). Form: All forms
Distillates (Petroleum), Hydrotreated Light Naphthenic	**ACGIH TLV (United States).** TWA: 5 mg/m^3 8 hour(s). **OSHA PEL 1989 (United States).** TWA: 5 mg/m^3 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance : Solid.

Color : Not available.

Odor : Odorless.

Molecular Weight : Not applicable.

Molecular Formula : Not applicable.

pH (1% Soln/Water) : Basic.

Boiling/Condensation Point : Not available.

Melting/Freezing Point : 900.05 to 1000.05°C (1652.1 to 1832.1°F) based on data for: Talc. Weighted average: 826.53°C (1519.8°F)

Specific Gravity : 1.65 (Water = 1)

Vapor Pressure : Not available.

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Vapor Density : Not available.
Volatility : Not available.
Odor Threshold : Not available.
Evaporation Rate : Not available.
VOC : 17 (g/l).
Viscosity : Not available.
$LogK_{ow}$: Not available.
Solubility : Very slightly soluble in cold water, hot water.

Section 10. Stability and Reactivity

Stability and Reactivity : The product is stable.
Conditions of Instability : Not available.
Incompatibility with Various Substances : Reactive with oxidizing agents, acids, alkalis.
Hazardous Decomposition Products : Not available.
Hazardous Polymerization : Will not occur.

Section 11. Toxicological Information

Chronic Effects on Humans : **CARCINOGENIC EFFECTS**: Classified 1 (Proven for human.) by IARC [Talc]. Classified None. by NIOSH [Talc]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Talc]. Classified 2B (Possible for human.) by IARC [Magnesium Aluminum Silicate].
Other Toxic Effects on Humans : Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).
Non-sensitizer for skin.
Special Remarks on Toxicity to Animals : Not available.
Special Remarks on Chronic Effects on Humans : Not available.
Special Remarks on Other Toxic Effects on Humans : Not available.

Section 12. Ecological Information

BOD and COD : Not available.
Biodegradable/OECD : Not available.
Mobility : Not available.
Products of Degradation : These products are carbon oxides (CO, CO_2) and water. Some metallic oxides.
Toxicity of the Products of Biodegradation : The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation : Not available.

Section 13. Disposal Considerations

Waste Information : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

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Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
United States (DOT)	Not regulated.	-	-	-		-
IMDG Code	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

NAERG : Not applicable.

Section 15. Regulatory Information

HCS Classification : Contains material which may cause cancer

U.S. Federal Regulations : TSCA 8(b) inventory: All components listed.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Limestone; Talc
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Limestone: Immediate (Acute) Health Hazard; Talc: Immediate (Acute) Health Hazard
Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

SARA 313

Form R - Reporting Requirements : No products were found.

Supplier Notification : No products were found.

State Regulations : Pennsylvania RTK: Limestone: (generic environmental hazard); Talc: (generic environmental hazard); Cellulose (paper fiber): (generic environmental hazard)
Massachusetts RTK: Limestone; Talc; Cellulose (paper fiber); Distillates (petroleum), hydrotreated light naphthenic
New Jersey: Talc

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Magnesium Aluminum Silicate

Section 16. Other Information

Label Requirements : CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER

Hazardous Material Information System (U.S.A.)

Health	*	1
Fire Hazard		1
Reactivity		0
Personal Protection		C

National Fire Protection Association (U.S.A.)

References : - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. ANSI Z400.1, MSDS Standard, 2001. -Manufacturer's Material Safety Data Sheet.

Responsible Name : **Kemika XXI Inc. +1-450-435-7475**
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