



Material Safety Data Sheet - MSDS

Detectable Tape

Section 1. Chemical Product and Company Identification

Common Name : Detectable Tape **Code** : DU01, DU05, DU08, DU09, DU10, DU601, DU605, DU608, DU609, DU610

Synonym : Not available. **Validation Date** : 2004-10-24.

Trade name : DU01, DU05, DU08, DU09, DU10, DU601, DU605, DU608, DU609, DU610. **In Case of Emergency** : (714) 739-1408

Manufactured for : L.H. Dottie Company
6131 S. Garfield Avenue
Commerce, California 90040
Tel: (323) 725-1000

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Polyethylene	9002-88-4	70-100	OSHA PEL (United States, 2002). Notes: TWA: 5 mg/m ³ 8 hour(s). Form: Respirable dust TWA: 15 mg/m ³ 8 hour(s). Form: Total dust
Aluminum Metal Foil	7429-90-5	0.5-1	ACGIH TLV (United States, 2003). TWA: 5 mg/m ³ 8 hour(s). Form: All forms TWA: 10 mg/m ³ 8 hour(s). Form: Dust TWA: 5 mg/m ³ 8 hour(s). Form: Fume NIOSH REL (United States, 2001). TWA: 5 mg/m ³ 10 hour(s). Form: All forms 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

This material is classified as not hazardous under OSHA regulations. This product is an Article under the United States Hazard Communication System. Therefore it is EXEMPTED from the regulatory requirements under HCS.

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

Section 3. Hazards Identification

Physical State and Appearance : Solid.

Emergency Overview : No specific hazard.
USE WITH CARE.
Follow good industrial hygiene practice.

Routes of Entry : Ingestion.

Potential Acute Health Effects

Eyes : Non-irritating to the eyes.

Skin : Non-irritant for skin. Non-sensitizer for skin.

Inhalation : Not available.

Ingestion : Not available.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS:** Classified None. by NIOSH [Polyethylene]. Classified 3 (Not classifiable for human.) by IARC [Polyethylene].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure signs/symptoms : Not available.

See Section 11 for Toxicological Data.

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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. 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** : The lowest known value is >343°C (649.4°F) (Polyethylene).
- Flash Points** : The lowest known value is Closed cup: 644.85°C (1192.7°F). (Aluminium)
- Flammable Limits** : Not available.
- Products of Combustion** : These products are carbon oxides (CO, CO₂). 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 applicable.
Risks of explosion of the product in presence of static discharge: Not applicable.
- 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. 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. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

- Handling** : After handling, always wash hands thoroughly with soap and water.
- Storage** : Avoid extreme temperature (below 0°C (32°F) or over 30°C (85°F)).

Section 8. Exposure Controls, Personal Protection

- Engineering Controls** : No special ventilation requirements.

Personal Protection

- Eyes** : Not required.
- Body** : Not required.
- Respiratory** : Not applicable.
- Hands** : Not applicable.
- Feet** : Not applicable.

Protective Clothing (Pictograms) :

Personal Protection in Case of a Large Spill : None, under normal conditions of uses.

Exposure Limits

Product Name	Exposure Limits
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Polyethylene

OSHA PEL (United States, 2002). Notes:TWA: 5 mg/m³ 8 hour(s). Form: Respirable dustTWA: 15 mg/m³ 8 hour(s). Form: Total dust

Aluminum Metal Foil

ACGIH TLV (United States, 2003).TWA: 5 mg/m³ 8 hour(s). Form: All formsTWA: 10 mg/m³ 8 hour(s). Form: DustTWA: 5 mg/m³ 8 hour(s). Form: Fume**NIOSH REL (United States, 2001).**TWA: 5 mg/m³ 10 hour(s). Form: All formsTWA: 5 mg/m³ 10 hour(s). Form: Respirable fractionTWA: 10 mg/m³ 10 hour(s). Form: Total**OSHA PEL (United States, 1993).**TWA: 5 mg/m³ 8 hour(s). Form: Respirable fractionTWA: 15 mg/m³ 8 hour(s). Form: Total dust[Consult local authorities for acceptable exposure limits.](#)**Section 9. Physical and Chemical Properties**

Physical State and Appearance	: Solid.
Color	: Red, yellow, blue, orange and others.
Odor	: Odorless.
Molecular Weight	: Not applicable.
Molecular Formula	: Not applicable.
pH (1% Soln/Water)	: Not applicable.
Boiling/Condensation Point	: Not available.
Melting/Freezing Point	: 660°C (1220°F) based on data for: Aluminium. Weighted average: 142.78°C (289°F)
Specific Gravity	: Weighted average: 0.96 (Water = 1)
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Evaporation Rate	: Not available.
VOC	: Not available.
Viscosity	: Not available.
LogK_{ow}	: Not available.
Solubility	: Insoluble 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	: Not considered to be reactive.
Hazardous Decomposition Products	: Not available.
Hazardous Polymerization	: Will not occur.

Section 11. Toxicological Information

Chronic Effects on Humans	: CARCINOGENIC EFFECTS: Classified None. by NIOSH [Polyethylene]. Classified 3 (Not classifiable for human.) by IARC [Polyethylene].
Other Toxic Effects on Humans	: Non-irritant for skin. Non-sensitizer for skin. Non-irritating to the eyes.
Special Remarks on Toxicity to Animals	: Not available.
Special Remarks on Chronic Effects on Humans	: Not available.

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Special Remarks on Other : Not available.

Toxic Effects on Humans

Section 12. Ecological Information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Aluminum Metal Foil	Oncorhynchus mykiss (LC50)	96 hour(s)	0.12 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.16 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.31 mg/l

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of Degradation : These products are carbon oxides (CO, CO₂) and water. Some metallic oxides.

Toxicity of the Products of Biodegradation : The product itself and its products of degradation are not toxic.

Biodegradation

Special Remarks on the : Not available.

Products of Biodegradation

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.

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 : Not controlled under the HCS (United States).

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: Aluminium

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Aluminium: Fire Hazard, reactive

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 : Aluminium 0.5-1

Supplier Notification : Aluminium 0.5-1

State Regulations : Pennsylvania RTK: Aluminium: (environmental hazard, generic environmental hazard)
 Massachusetts RTK: Aluminium
 New Jersey: Aluminium
 California prop. 65: No products were found.

Section 16. Other Information

Label Requirements : USE WITH CARE.

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

Health	0
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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