



Material Safety Data Sheet - MSDS

Detectable Tape

DU01, DU05, DU08, DU08, DU09, DU10, DU601, DU605, DU608, DU609, DU610)

Section 1. Manufacturer Identification

Manufacturer's Name & Address:

L.H. Dottie
6131 S. Garfield Ave.
Commerce, CA 90040

Emergency Telephone Number:

1-800-255-3924

Date Revised: September 2010

Section 2. Hazard Identification

• **Emergency Overview:** Dust may form explosive mixtures with air. Molten polymer may cause thermal burns. Irritating fumes may produce at process temperatures.

Potential Health Effects

Eye: If dusts or fumes are generated by processing, particulates may scratch eye surface. May cause mechanical abrasion. Not expected to cause prolonged or significant eye irritation.

Skin: Negligible hazard at ambient temperatures. Hot solid may cause thermal burns.

Ingestion: Essentially non-toxic. Ingestion is not a likely route of exposure.

Inhalation: Negligible hazard at ambient temperature. Inhalation of fines or fumes from molten product may cause irritation to the nose or throat.

Chronic Exposure: No known chronic health effects.

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

Section 3. First Aid Measures

Eye: This product is an inert solid. If in eyes, flush eyes with plenty of water or saline solutions for at least 15 minutes. Seek medical advice if irritation persists.

Skin: This product is not likely to be hazardous by skin contact, but after using wash the skin sufficiently with soap and water. If molten material comes in contact with the skin, immediately cool under ice water or running stream of water. Do not attempt to remove the material from skin. Seek medical advice promptly.

Ingestion: If swallowed, may cause choking. Seek medical advice.

Inhalation: In the case of overexposure to dust or fume foamed at elevated temperature, immediately remove the affected victim to fresh air, administer artificial respiration if breathing is stopped, seek medical advice promptly.

Note to Physician: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

Section 4. Fire Fighting Measures

General Information: Weak Combustible

Flashpoint: No Data Available

Autoignition: 360°C-367°C (680°F-693°F) (Polymer Handbook)

NFPA Rating: Health 1, Flammability 1, Stability 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Extinguishing Media: Use water spray or fine spray. Dry powder, Carbon dioxide. Avoid using direct streams of water on molten burning material as it may scatter and spread the fire.

Unsuitable Extinguishing Media: Not data available

Protective Equipment for Fire Fighting: In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

Hazardous Combustion Products: If thermally decomposed, flammable/toxic gases may be released.

Additional Information: Dust or fines dispersed in the air can be explosive if subjected to a strong ignition source. Use water spray to cool fire exposed surfaces.

Section 5. Accidental Release Measures

General Information: Avoid generating dust.

Personal Precautions: For open systems at ambient temperature where contact is likely, wear safety glasses with side shields. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

Environmental Precautions: Prevent the product from spreading in to the environment. Recover using mechanical means.

Spill/Leaks: Recover using mechanical means for recycling or disposal.

Section 6. Handling and Storage

Handling: Do not handle near an open flame, heat or other sources of ignition. Protect material from direct sunlight. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and grounding equipment and do not permit dust to accumulate.
Storage : Material will accumulate static charges which may cause an electrical spark. Use proper bonding and/or grounding procedures. Keep container closed. Do not store near heat, flame or strong oxidant. Store in a cool, dry and well-ventilated area away from incompatible substances. To maintain product quality, protect material from direct sunlight.

Section 7. Control Exposure / Personal Protection

Engineering Controls: Local exhaust ventilation of process equipment is recommended for control of airborne dusts, fumes, and vapor, particularly in confined areas.

OSHA: TWA 5mg/m³ (respirable dust), and TWA 15 mg/m³ (total dust) based on the OSHA PEL for nuisance dust.

Personal Protective Equipment:

Respiratory Protection: Generally not required under recommended conditions of use. If significant mists, vapors or aerosols are generated an approved respirator is recommended.

Skin Protection: Negligible hazard at ambient temperatures. Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield. The choice of work glove depends on work conditions and what chemicals are handled.

Eye/Face Protection: When handling this product, the use of safety glasses.

General Safety and Hygiene Measures: Always wash thoroughly after handling chemicals.

Section 8. Physical and Chemical Properties

Appearance and Odor:	White or milky pellets
Odor:	Odorless
Volatiles by Volume @21°C:	Negligible
Evaporation Rate:	Not applicable
Specific Gravity(Water = 1):	0.919-0.940
Melting/Freezing Temperature:	100° C - 130°C
Boiling Temperature:	NA
Vapor Pressure:	NA
Vapor Density:	NA
Molecular Formula:	(C ₂ H ₄) _X
Molecular Weight:	Polymer, variable molecular mass
pH:	Not applicable
Solubility (in water):	Insoluble
Viscosity:	NA

Section 9. Toxicology Information

Acute Toxicity: Ingestion: 5,000 mg/kg (mouse, lethal dose) (*On Registry of Toxic Effects of Chemical Substances*)
> 3,000 mg/kg (rat, lethal dose) (*The Registry of Toxic Effects of Chemical Substances*)

Epidemiology: No data available

Tumorigenic Data: Human no adequate data. Animal inadequate evidence (*International Agency for Research on Cancer (IARC), Cancer*

Route/Organism: Implant/Rat

Dose: Toxic Dose: 1,476 mg/kg

Effect: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria

Tumorigenic: Tumors at site of application (*Clinical Orthopedics and Related Research (Lippincott) Harper Journal Fulfillment Dept., 2250 Virginia Ave., Hagerstown, MD 21740, No. 23, 1963.*)

Additional Toxicology Information: No data available.

Section 10. Stability and Reactivity

Chemical Stability:	Stable at ambient temperature and atmospheric pressure.
Conditions to Avoid:	Temperature over 350°C (662°F) may cause thermal degradation.
Hazardous Polymerization:	NA
Incompatibility materials to avoid:	Strong oxidizing agents such as nitrates, chlorates, peroxides, etc.
Decomposition Products:	Thermal Decomposition products may include simple hydrocarbons such as methane and propane, carbon oxides, aldehydes and other organic vapor.

Section 11. Ecological Information

Ecotoxicity (Environmental Fate): No data is available on the adverse effects of this product to the environment.

Section 12. Waste Disposal Considerations

Waste Disposal: Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations.
US EPA Guideline: Refer to state and local regulations

Section 13. Transport Information

ROAD/RAIL

Other Not regulated for transport.

SEA

Not regulated for transport.

AIR

Not regulated for transport.

Section 14. Regulatory Information

Inventories:

Europe:	Exempted
United States (TSCA):	Listed
Japan:	Listed (ENCS No. 1-215)
Korea:	Listed (ECL Serial No. KE-28877)
Australian (AICS):	Listed
Canadian (DSL):	Listed
Chinese:	Listed
Philippine:	Listed

International Chemical Regulation:

U.S. Federal, TSCA

TSCA IUR, Chemicals Exempt from Update Reporting (Flagged XU on TSCA Inventory)

CAS RN: 9002-88-4

Name: Ethane, Homopolymer

U.S. Federal, Food and Drugs

FDA/CDSAN Everything Added to food in the United States (EAFUS) Database (2/8/2007)

CAS RN: 9002-88-4

Name: Polyethylene (M W 2,000-21,000)

EAFUS document type: Fully up-to-date toxicology information has been sought.

EAFUS document number: 1286

Note(s): FDA's EAFUS database indicates that this chemical is mentioned, either as an additive or as an impurity, in the following sections of 21 CFR: 172.615, 173.20, 175.500, 176.180, 176.200, 176.210, 177.1220, 177.1390, 177.139, 177.1520, 177.1615, 177.1620, 177.2210, 177.2600, 178.1005, 178.3570, 178.3850, and 179.45. These CFR sections should always be consulted for the complete context before any conclusion is made as to the allowed regulated use.

U.S. Federal Pesticides

Inert Ingredients in Pesticide Products by Toxicity Category (Lists 3, 4A and 4B: inerts with unknown or minimal toxicity)

CAS RN: 9002-88-4

Name: Polyethylene

List Number (Toxicity category):4A (Inerts generally regarded as safe)

NIOSH, Appendix V - Categories of Pesticides, NIOSH Recommendations for Occupational safety and Health Standards 1982

CAS RN: 9002-88-4

Name: Polyethylene

Group III Pesticide: Minimal risk of adverse acute effects even at relatively high doses

U.S. EPCRA (SARA Title III)

Section 302 Extremely Hazardous Substance (EHS) (40 CFR 305, Appendix A): Not Regulated.

Section 313 Toxic Chemical (Reporting Form R Instructions for 2004, as amended by 70 FR 37698, 6/30/2005): Not Regulated

U.S. State

California, Air Toxics Hot Spots Information and Assessment Act, Emission Inventory Criteria and Guidelines Report: Not regulated

California Hazardous Substances List ("Director's List") (Calif. Admin. Code, tit. 8, sec. 339): Not Regulated

Illinois Toxic Substances Disclosure to Employees Act (Ill. Rev. Stat. Ch. 46, para. 1408): Not Regulated

Massachusetts Right-To-Know Substance List (Mass. Gen. Laws Ann. Ch. 111F): Not Regulated.

Minnesota Hazardous Substances List (Minn. Rules 5206.0400) (05/01/2000): Not Regulated

North Carolina Exposure Limits for Air Contaminants: Not Regulated.

New Jersey Right-To-Know Substances (N.J. Stat. Ann. Section 34:5A-5): Not Regulated

Pennsylvania Right to Know Hazardous Substances: Not Regulated.

Mexico: Hazard Identification Guidance List (NOM-018-STPS-2000): Not Regulated

Note: The regulatory information given above only indicated the principal regulations specifically applicable to the product described in the Material Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulation or provisions.