



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016

Revision: 03/23/2016

## 1 Identification

- **Product identifier**
- **Trade name:** Dottie Handi-Foam Expanding Foam Sealant
- **Product code:** HF340: 12 oz. Handi-Foam Expanding Sealant
- **Recommended use and restriction on use**
- **Recommended use:** One Component Polyurethane Foam Sealant
- **Restrictions on use:** None
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
L.H. Dottie Company  
6131 Garfield Ave.  
Commerce, CA 90040  
(323) 725-1000
- **Emergency telephone number:**  
ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Aerosol 1 H222 Extremely flammable aerosol.  
Press. Gas H280 Contains gas under pressure; may explode if heated.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS04 GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
4,4'-methylenediphenyl diisocyanate  
diphenylmethanediisocyanate, isomeres and homologues  
isobutane
- **Hazard statements:**  
H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.

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- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe mist/vapors/spray.
- P284 In case of inadequate ventilation wear respiratory protection.
- P211 Do not spray on an open flame or other ignition source.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves and eye protection.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Components:**

101-68-8	4,4'-methylenediphenyl diisocyanate ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<10%
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<10%
75-28-5	isobutane ⚠ Flam. Gas 1, H220 ⚠ Press. Gas, H280	<10%

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115-10-6	dimethyl ether  Flam. Gas 1, H220  Press. Gas, H280	<10%
74-98-6	propane  Flam. Gas 1, H220  Press. Gas, H280	<10%

**Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
 For the wording of the listed Hazard Statements refer to section 16.

## 4 First-aid measures

**Description of first aid measures****After inhalation:**

Supply fresh air and to be sure to call for a doctor.  
 Provide oxygen treatment if affected person has difficulty breathing.  
 In case of irregular breathing or respiratory arrest provide artificial respiration.  
 In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.  
 In cases of frostbite, rinse with plenty of water. Do not remove clothing.

**After eye contact:**

Immediately remove contact lenses if possible.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Unlikely route of exposure.  
 Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed:**

Asthma attacks  
 Headache  
 Breathing difficulty  
 Coughing  
 Allergic reactions  
 Frostbite  
 Irritant to skin and mucous membranes.  
 Irritant to eyes.  
 May cause respiratory irritation.  
 Nausea in case of ingestion.  
 Gastric or intestinal disorders when ingested.

**Danger:**

Danger of impaired breathing.  
 May cause damage to organs through prolonged or repeated exposure.

**Indication of any immediate medical attention and special treatment needed:**

Contains isocyanates. May produce an allergic reaction.  
 Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.  
 Medical supervision for at least 48 hours.

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If necessary oxygen respiration treatment.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
Later observation for pneumonia and pulmonary edema.  
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Carbon dioxide
  - Gaseous extinguishing agents
  - Fire-extinguishing powder
  - Water fog / haze
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
  - Danger of receptacles bursting because of high vapor pressure if heated.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information:**
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered containers with water fog.
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
  - Protect from heat.
  - Isolate area and prevent access.
- **Environmental precautions:** Avoid release to the environment.
- **Methods and material for containment and cleaning up:**
  - Allow to solidify. Pick up mechanically.
  - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections:**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
  - Keep away from heat and direct sunlight.
  - Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Keep respiratory protective device available.
  - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
  - Do not spray on a naked flame or any incandescent material.
  - Emergency cooling must be available in case of nearby fire.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
  - Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Store away from oxidizers, strong acids, strong bases.
- **Further information about storage conditions:**
  - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **Specific end use(s):** No relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

**101-68-8 4,4'-methylenediphenyl diisocyanate**

PEL (USA)	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

**75-28-5 isobutane**

TLV (USA)	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
EV (Canada)	Long-term value: 800 ppm

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LMPE (Mexico) Long-term value: 1000 ppm

**115-10-6 dimethyl ether**

WEEL (USA) Long-term value: 1000 ppm

EL (Canada) Long-term value: 1000 ppm

**74-98-6 propane**PEL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppmREL (USA) Long-term value: 1800 mg/m<sup>3</sup>, 1000 ppm

TLV (USA) refer to Appendix F in TLVs and BEIs book

EL (Canada) Long-term value: 1000 ppm

EV (Canada) Long-term value: 1000 ppm

LMPE (Mexico) Long-term value: 1000 ppm

**· Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**· Engineering controls:** No relevant information available.**· Breathing equipment:**

Suitable respiratory protective device recommended.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**· Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

PVC gloves

Neoprene gloves

**· Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.**· Body protection:** Protective work clothing**· Limitation and supervision of exposure into the environment**

No relevant information available.

## 9 Physical and chemical properties

**· Information on basic physical and chemical properties****· Appearance:****Form:** Aerosol**Color:** Cream colored**· Odor:** Hydrocarbon.

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· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Not applicable, as aerosol.
· <b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
· <b>Flash point:</b>	Extremely flammable aerosol. Not applicable, as aerosol.
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	~1.1
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>VOC content:</b>	164 g/l
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions:**  
Develops readily flammable gases / fumes.  
Reacts with alcohols, amines, aqueous acids and alkalis.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

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Extremely flammable aerosol.

**Conditions to avoid:**

Moisture.

Excessive heat.

**Incompatible materials:** Oxidizers, strong bases, strong acids**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Hydrogen cyanide (prussic acid)

## 11 Toxicological information

**Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:****101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral | LD50 | 2200 mg/kg (mouse)

**Primary irritant effect:****On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:** May cause sensitisation by inhalation and skin contact.**IARC (International Agency for Research on Cancer):**

101-68-8 | 4,4'-methylenediphenyl diisocyanate

3

9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues

3

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Probable route(s) of exposure:**

Eye contact.

Skin contact.

**Acute effects (acute toxicity, irritation and corrosivity):**

May be harmful if inhaled.

Irritating to eyes, respiratory system and skin.

**Repeated dose toxicity:** Repeated exposure may result in skin sensitivity.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:** May cause respiratory irritation.**STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.**Aspiration hazard:** Based on available data, the classification criteria are not met.

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### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** Not easily biodegradable
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**  
 Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).
- **DOT** Aerosols
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** Aerosols, flammable

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· **Transport hazard class(es)**· **DOT**

· Class	2.1
· Label	2.1

· **ADR**

· Class	2 5F Gases
· Label	2.1

· **IMDG, IATA**

· Class	2.1
· Label	2.1

· <b>Packing group</b>	Aerosols are not assigned a packing group.
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· **Environmental hazards**

· <b>Marine pollutant:</b>	No
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· <b>Special precautions for user</b>	Warning: Gases
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· <b>EMS Number:</b>	F-D,S-U
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· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

101-68-8 | 4,4'-methylenediphenyl diisocyanate

9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues

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**· TSCA (Toxic Substances Control Act)**

All ingredients are listed.

**· Proposition 65 (California)****· Chemicals known to cause cancer:**

None of the ingredients are listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**· Carcinogenic categories****· EPA (Environmental Protection Agency):**

101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
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9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
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**· IARC (International Agency for Research on Cancer):**

101-68-8	4,4'-methylenediphenyl diisocyanate	3
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9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
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**· NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**· Canadian substance listings****· Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Date of preparation / last revision** 03/23/2016 / -**· Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

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Press. Gas: Gases under pressure: Compressed gas  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

• **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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