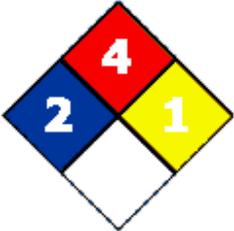


Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>2*</td> </tr> <tr> <td>Fire Hazard</td> <td>4</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health Hazard	2*	Fire Hazard	4	Reactivity	1		
Health Hazard	2*								
Fire Hazard	4								
Reactivity	1								

Issuing Date 13-Feb-2007

Revision Date 08-Oct-12

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Touch 'n Foam Landscape Exterior Filler-Adhesive Touch 'n Foam Exterior Filler-Adhesive Touch 'n Foam Professional Black Landscaping Gun Foam Sealant Touch 'n Seal Black Gun Foam
Recommended Use	Insulation, Adhesive
Supplier Address	Convenience Products, Division of Clayton Corp. 866 Horan Drive Fenton, MO 63026-2416 TEL: (636) 349-5333
Emergency Telephone Number	Chemtel 1-800-255-3924 (813) 248-0585 outside US

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable gas. May cause flash fire.
Contents under pressure. Avoid temperatures above (120°F)
Irritating to eyes, respiratory system and skin.
May produce an allergic skin or respiratory reaction
Vapor reduces oxygen available for breathing. Lower oxygen levels may cause anesthetic effects.
May cause drowsiness and dizziness. Keep upwind of spill. Stay out of low areas.

Appearance Black

Physical State Liquid Aerosol

Odor Faint hydrocarbon

Potential Health Effects

Principle Routes of Exposure

Inhalation, Skin contact, Eye contact.

Acute Toxicity

Eyes

Irritating to eyes. May cause slight temporary corneal injury due to adhesive character.

Skin

Prolonged skin contact may cause moderate skin irritation with local redness. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Will bond to skin causing irritation upon removal.

Skin Absorption

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation

Excessive exposure may cause irritation to upper respiratory tract. Symptoms of excessive exposure may be anesthetic or narcotic effects: dizziness and drowsiness may be observed. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Inhalation of vapors in high concentrations may cause shortness of breath (lung edema).

2. HAZARDS IDENTIFICATION

Respiratory Sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest.
Ingestion	May be harmful if swallowed. May cause additional effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may cure in the gastrointestinal tract and form an obstruction. May cause adverse cardiac effects, blood disturbances, and metabolic acidosis.
Chronic Effects	Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI / Polymeric MDI aerosols. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.
Birth / Developmental Effects:	In laboratory animals, MDI/Polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses that were toxic to the mother.
Aggravated Medical Conditions	Allergies. Skin disorders. Respiratory disorders. Central nervous system. Preexisting eye disorders. Kidney disorders. Liver disorders.
Interactions with Other Chemicals	Irritants. Sensitizers. Epoxies. Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Flame retardant	Proprietary	10-30
Polymethylene polyphenylene isocyanate	9016-87-9	10-30
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30
Polyol blend	Proprietary	10-30
Polyol blend	Proprietary	5-10
Isobutane	75-28-5	5-10
Methylenediphenyl diisocyanate	26447-40-5	1-5
Propane	74-98-6	1-5
Dimethyl ether	115-10-6	1-5

4. FIRST AID MEASURES

General Advice	If emergency warrants call 911 or emergency medical service. Show this safety data sheet to the doctor in attendance. Remove and wash soiled clothing before reuse.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical attention, preferably from an ophthalmologist.
Skin Contact	Remove contaminated clothing; wash before reuse. Foam will stick to skin; studies demonstrate that cleaning very soon after exposure with corn oil or nail polish remover is most effective. If foam dries on skin, apply generous amounts of petroleum jelly or lanolin, put on plastic gloves and wait 1 hour. With a clean cloth, firmly wipe off petroleum jelly and repeat process if necessary. Do not attempt to remove dried foam with solvents.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Ingestion	Call a physician or Poison Control Center immediately. May produce an allergic reaction. Do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water. Never give anything by mouth to an unconscious person.
Notes to Physician	Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. May cause respiratory sensitization or asthma-like symptoms. Respiratory symptoms, including pulmonary edema, may be delayed. Exposure may increase "myocardial irritability". If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Protection of First-Aiders	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Aerosol cans exposed to fire can rupture and spread fire to other areas. Vapors are heavier than air and may travel a long distance and accumulate in low-lying areas.
Flash Point	-104°C / -155°F (based on propellant.)
Suitable Extinguishing Media	Isolate fire and deny unnecessary entry. Use an extinguishing agent suitable for type of fire. Dry chemical CO ₂ water spray, fog or regular foam. Stay upwind. Keep out of low areas where gases fumes can accumulate. Damaged cylinders should be handled only by specialists.
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	Yes
Specific Hazards Arising from the Chemical	Propellant is flammable and will burn. Eliminate ignition sources. Ruptured cylinders may rocket. Chemicals other than propellant may burn but none ignite readily. Flash back possible over considerable distance. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NEPA	Health Hazard 2	Flammability 4	Stability 1	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 4	Stability 1	Personal Precautions B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Do not touch or walk through spilled material. Use appropriate safety equipment. Evacuate area. Keep personnel out of low areas, confined or poorly ventilated areas. Keep upwind of spill. Ensure adequate ventilation. Remove all sources of ignition. No smoking in area. Only trained and properly protected personnel must be involved in clean-up operations.
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Methods for Containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Contain spilled materials if possible without risk. Absorb with materials such as Sawdust. Dirt Vermiculite. Collect in suitable and properly labeled open containers. Do not place in sealed containers. Curing foam gives off CO₂. Wash what is left of the spill site with large quantities water.

Methods for Cleaning Up Attempt to neutralize the spilled material by adding suitable decontaminate solution: Formulation 1: Sodium carbonate 5-10%; liquid detergent 0.2 – 2%; water to make up to 100%, OR Formulation 2: concentrated ammonia solution 3 – 8%; liquid detergent 0.2 – 2%; water to make up to 100%. If ammonia formulation is used, use good ventilation to prevent vapor exposure. Sweep up and shovel into suitable containers for disposal.

Other Information Ventilate the area. Curing foam gives off CO₂. Do not put curing foam in a sealed drum.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Ensure adequate ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic propellant vapors). Keep away from open flames, hot surfaces and sources of ignition. Do not Smoke. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Container, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Do not stick pin or any other sharp object into opening on top of can.

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep in an area equipped with sprinklers. Keep out of the reach of children. Ideal storage temperature is 16-32 °C / 60 – 90 °F. Storage above 32 °C / 90 °F will reduce its shelf-life. Never keep at temperatures above 48.8°C / 120°F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene bisphenyl isocyanate (MDI)	TWA: 0.005 ppm	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	75 mg/m ³
Isobutane	TWA: 1000 ppm	N/A	N/A
Propane	TWA: 2,500 ppm STEL 1,000 ppm, 3,500 mg/m ³	8Hr TWA: 1000 ppm 1,800.0 mg/m ³	2100 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures Showers Eyewash stations Ventilation systems

Personal Protective Equipment
Eye/Face Protection Safety glasses with side-shields.

Skin and Body protection Impervious gloves. Lightweight protective clothing.

Respiratory Protection Atmospheric levels of PMDI should be maintained below the exposure guidelines. If exposure limits are exceeded or irritation is experienced, use a NIOSH/MSHA approved air-purifying respirator equipped with an organic vapor absorbent and a particle filter. For situations where the atmospheric levels exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplied respirator. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Maintain regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black	Odor	Faint hydrocarbon
Odor Threshold	No information available	Physical State	Liquid Aerosol
pH	No information available		
Flash Point	-104°C / -155°F (based on propellant.)	Autoignition Temperature	Not applicable
Decomposition temperature	No data available	Boiling Point/Range	-42°C / -43.6°F
Melting Point/Range	Not applicable	Viscosity	No information available
Flammability Limits in Air	No data available	Explosion Limits	No data available
Specific Gravity	1.01	Water Solubility	Not Compatible
Solubility	No data available	Evaporation Rate	No data available
Vapor Pressure	No data available	Vapor Density	No data available
Partition Coefficient (n-octanol/water)	Not applicable	EPA VOC	1.29 (lb/gal) 155 (g/l)

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Temperatures above 48.8°C / 120°F. Exposure to elevated temperatures can cause product to decompose.
Incompatible Products	Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Hydrogen cyanide.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Sensitization - Skin	Skin contact may cause an allergic skin reaction. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization.
Sensitization – Respiratory	May cause allergic respiratory response. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Flame retardant	>5000 mg/kg (Rat)	1230 mg/kg (Rabbit) 5000 mg/kg (Rat)	5 mg/L (Rat) 4 h
Polymethylene polyphenylene isocyanate	49 g/kg (Rat)	9400 mg/kg (Rabbit)	490 mg/m ³ (Rat) 4 h
Methylene bisphenyl isocyanate (MDI)	9200 mg/kg (Rat)		
Polyol blend	2 g/kg (Rat)		
Polyol blend	64 mL/kg (Rat)	20 mL/kg (Rabbit)	
Isobutane			658 mg/L (Rat) 4 h
Methylenediphenyl diisocyanate		6200 mg/kg (Rabbit)	0.369 mg/L (Rat) 4 h
Propane		658 mg/kg (Rat)	
Dimethyl ether			308 g/ m ³ (Rat) 4 h

Chronic Toxicity

Chronic Toxicity

Repeated or prolonged exposure may cause central nervous system damage. Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Carcinogenicity

There are no known carcinogenic chemicals in this product

Mutagenicity

Contains no known mutagenetic chemicals

Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

Target Organ Effects

Contains component(s) that have been reported to cause effects on the following organs in animals: Kidney, Liver, Bone marrow.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

12. ECOLOGICAL INFORMATION

Movement & Partitioning:

In the aquatic and terrestrial environment, PMDI movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Persistence and Degradability:

In the aquatic and terrestrial environment, PMDI reacts with water forming predominantly insoluble polyureas that appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

Ecotoxicity

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Flame retardant	EC50 = 4 mg/L 96 h EC50 = 45 mg/L 72 h		EC50 = 295 mg/L 30 min	EC50 = 63 mg/L 48 h
Methylenediphenyl diisocyanate	EC50 = 3230 mg/L 96 h			EC50 > 1000 mg/L 24 h
Dimethyl ether		LC50 (goldfish) 3677 mg/L, 96 h		LC50 1852 mg/L, 96 h

Chemical Name	Log Pow
Flame retardant	2.59
Isobutane	2.88
Propane	2.3

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Chemical Name	Log Pow
Dimethyl ether	-0.18

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment. Dispose of in accordance with local regulations. Allow foam to cure before disposal.

Contaminated Packaging Dispose of in accordance with local regulations

US EPA Waste Number D001

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity
Hazard Class ORM-D
Description Consumer commodity, ORM-D

TDG

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols, 2.1

MEX

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols, 2.1

ICAO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols

IATA

UN-No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG Code 10L
Description UN1950, Aerosols, flammable, 2.1

IMDG/IMO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
EmS No. F-D, S-U
Description UN1950, Aerosols, 2.1, LTD QTY

RID

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2
Classification Code 5A
Description UN1950, Aerosols, 2, RID
ADR/RID-Labels 2

ADR

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2
Classification Code 5A

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14. TRANSPORT INFORMATION

ADR/RID-Labels	2
ADN	
UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2
Classification Code	5A
Special Provisions	63, 190, 191, 277, 913
Description	UN1950, Aerosols, 2
Hazard Labels	2
Limited Quantity	See SP277

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15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

OSHA Hazard Communication Standard This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Polymethylene polyphenylene isocyanate	9016-87-9	10-30	1.0
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30	1.0
Methylenediphenyl diisocyanate	26447-40-5	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methylene bisphenyl isocyanate (MDI)	5000 lb	

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethyl ether	X	X	X		X
Propane	X	X	X		X
Isobutane	X	X	X		
Methylene bisphenyl isocyanate (MDI)	X	X	X	X	X

International Regulations

Mexico - Grade

The exposure limits values for 101-68-8 are listed under two synonyms:
 Diphenylmethane diisocyanate - 0.02 ppm TWA; 0.2 mg/m³ TWA
 Methylene bisphenyl isocyanate - 0.005 ppm TWA; 0.051 mg/m³ TWA

Chemical Name	Carcinogen Status	Exposure Limits
Methylene bisphenyl isocyanate (MDI)		Mexico: TWA= 0.2 mg/m ³ Mexico: TWA= 0.02 ppm
Diphenylmethane diisocyanate		Mexico: TWA= 0.005 ppm Mexico: TWA= 0.051 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

- A Compressed gases
- B5 Flammable aerosol
- D2B Toxic materials



Chemical Name	NPRI
Methylene bisphenyl isocyanate (MDI)	X

Legend

- NPRI - National Pollutant Release Inventory
- WHMIS – Workplace Hazardous Materials Information System
- TSCA – Toxic Substance Control Act
- DSL – Domestic Substance List
- EINECS – European Inventory of Existing Commercial Chemical Substances
- ENCS – Japan, Existing and New Chemical Substances
- KECL- Korean Existing Chemical List
- PICS – Philippine Inventory of Chemicals and Chemical Substances
- AICS – Australian Inventory of Chemical Substances
- TDG – Transportation of Dangerous Goods Act
- ICAO – International Civil Aviation Organization
- IATA – International Maritime Dangerous Goods Code
- IMDG – International Maritime Dangerous Goods Code

16. OTHER INFORMATION

Issuing Date	13-Feb-2007
Revision Date	08-Oct-12
Revision Note	Revised by Clayton Corporation EHS Department

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Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS