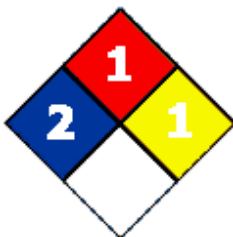





Material Safety Data Sheet

| NFPA | HMIS | PPE | Transport Symbol | | | | | | |
|---|--|---------------|------------------|-------------|---|------------|---|---|---|
|  | <table><tr><td>Health Hazard</td><td>2*</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>1</td></tr></table> | Health Hazard | 2* | Fire Hazard | 1 | Reactivity | 1 |   |  |
| Health Hazard | 2* | | | | | | | | |
| Fire Hazard | 1 | | | | | | | | |
| Reactivity | 1 | | | | | | | | |

Issuing Date 27-Feb-2007

Revision Date 24-Sept-2009

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Touch 'n Foam® Professional Quick Cure Polyurethane Insulating Sealant
Touch 'n Seal® Quick Cure Polyurethane Foam Sealant RX (cylinder)
Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Recommended Use Sealant, Insulation

Supplier Address Convenience Products, Division of Clayton Corp.
866 Horan Drive
Fenton, MO 63026-2416 USA
TEL: (636) 349-5333

Emergency Telephone Number Chemtrec 1-800-424-9300
(703) 527-3887 outside US

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Contents under pressure. Avoid temperatures above (120°F)
May be harmful if swallowed or inhaled.
May cause allergic skin reaction.
May cause allergic respiratory reaction.
Vapors may be irritating to eyes, nose, throat, and lungs.
May cause drowsiness and dizziness.
Keep upwind of spill. Stay out of low areas

Appearance Pale Amber

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 or repeated exposure may cause slight skin irritation. Material will stick to skin causing irritation upon removal. Animal studies have shown that skin contact with isocyanates may play a role in causing respiratory sensitization. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Skin Absorption

A single prolonged exposure is unlikely to result in the material being absorbed in harmful amounts.

| | |
|--|--|
| Inhalation | Maintain local exhaust ventilation system during use. If large concentrations of vapors build up they could cause upper respiratory tract and lung irritation. May cause allergic respiratory reaction. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). |
| Ingestion | May be harmful if swallowed. May cause additional affects 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. 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 % |
|--|-------------|----------|
| 1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon) | 811-97-2 | 10-30 |
| Flame Retardant | Proprietary | 5-20 |
| Flame Retardant | Proprietary | 5-20 |
| Polymethylene polyphenylene isocyanate | 9016-87-9 | 10-30 |
| Methylene bisphenyl isocyanate (MDI) | 101-68-8 | 10-30 |
| Polyol blend | Proprietary | 10-30 |
| Methylenediphenyl diisocyanate | 26447-40-5 | 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. Administer oxygen if breathing is difficult. 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.

Flash Point

None

Suitable Extinguishing Media

Isolate fire and deny unnecessary entry. Use an extinguishing agent suitable for type of surrounding fire. Dry chemical, CO₂, water spray, fog or regular foam. Stay upwind. Keep out of low areas where gases fumes can accumulate. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

Explosion Data

Sensitivity to mechanical impact

None

Sensitivity to static discharge

None

Specific Hazards Arising from the Chemical

Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

NFPA

Health Hazard 2

Flammability 1

Stability 1

Physical and Chemical Hazards -

HMIS

Health Hazard 2*

Flammability 1

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. No smoking in area. Only trained and properly protected personnel must be involved in clean-up operations.

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. Wash what is left of the spill site with large quantities water.

Methods for Cleaning Up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Do not direct water at spill or source of leak.

Other Information

Ventilate the area. Curing foam gives off HFC-134a. Do not put curing foam in a sealed drum.

7. HANDLING AND STORAGE

7. HANDLING AND STORAGE

| | |
|----------|--|
| Handling | Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. 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 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 |

NIOSH IDLH: Immediately Dangerous to Life or Health

| | |
|-------------------------------|---|
| Engineering Measures | Showers Eyewash stations Ventilation systems |
| Personal Protective Equipment | |
| Eye/Face Protection | Tightly fitting safety glasses with side-shields. |
| Skin and Body protection | Lightweight protective clothing. Impervious gloves. |
| 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 | Pale Amber | Odor | Faint hydrocarbon |
| Odor Threshold | No information available | Physical State | Liquid Aerosol |
| pH | No information available | | |
| Flash Point | None | Autoignition Temperature | Not applicable |
| Decomposition temperature | No data available | Boiling Point/Range | -41 °C / -42 °F |
| Melting Point/Range | No data available | | |
| Flammability Limits in Air | No data available | Explosion Limits | No data available |
| Specific Gravity | 1.2 | Water Solubility | Not Compatible |
| Solubility | Compatible. | Evaporation Rate | No data available |
| Vapor Pressure | No data available | Vapor Density | No data available |
| VOC Content | Not applicable | EPA VOC (g/l) | 0 |

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. |
| Incompatible Products | Water. Alcohols. Strong bases. Strong oxidizing agents. Finely powdered metals. |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), 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 | 1,250 mg/kg (Rat) | >5,000 mg/kg (Rabbit)* | >4.6 mg/l (Rat) 4-hr |
| Flame Retardant | >2,000 mg/kg (Rat) | >23,700 mg/kg (Rabbit) | >5.22 mg/l (Rat) 4-h |
| Polymethylene polyphenylene isocyanate | 49 g/kg (Rat) | >2000 mg/kg (Rat) 9400 mg/kg (Rabbit) | 490 mg/m ³ (Rat) 4 h |
| Methylene bisphenyl isocyanate (MDI) | 9200 mg/kg (Rat) | | |
| Polyol blend | 64 mL/kg (Rat) | 20 mL/kg (Rabbit) | |

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|-----------|-----------------------|------------------------|
| Methylenediphenyl diisocyanate | | 6200 mg/kg (Rabbit) | 0.369 mg/L (Rat) 4 h |

| | |
|--|--|
| 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. Repeated or prolonged contact causes sensitization, asthma and eczemas. Repeated or prolonged contact may 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

Ecotoxicity effects.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|--------------------------------|-----------------------|------------------|----------|----------------------------|
| Flame Retardant | EC50 > 10 mg/L 72 h | | | EC50 3.9 - 5.5 mg/L 48 h |
| Methylenediphenyl diisocyanate | EC50 = 3230 mg/L 96 h | | | EC50 > 1000 mg/L 24 h |

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). 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.

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 | 2.2 |
| | Description | UN1950, Aerosols, 2.2 |
| MEX | UN-No | UN1950 |
| | Proper Shipping Name | Aerosols |
| | Hazard Class | 2.2 |
| | Description | UN1950, Aerosols, 2.2 |
| ICAO | UN-No | UN1950 |
| | Proper Shipping Name | Aerosols |
| | Hazard Class | 2.2 |
| | Description | UN1950, Aerosols |
| IATA | UN-No | UN1950 |
| | Proper Shipping Name | Aerosols, non-flammable |
| | Hazard Class | 2.2 |
| | ERG Code | 2L |
| | Description | UN1950, Aerosols, non-flammable, 2.2 |
| IMDG/IMO | UN-No | UN1950 |
| | Proper Shipping Name | Aerosols |
| | Hazard Class | 2.2 |

14. TRANSPORT INFORMATION

| | | |
|------------|-----------------------------|--------------------------|
| RID | Description | UN1950, Aerosols, 2.2 |
| | UN-No | UN1950 |
| | Proper Shipping Name | Aerosols |
| | Hazard Class | 2 |
| ADR | Classification Code | 5A |
| | Description | UN1950, Aerosols, 2, RID |
| | ADR/RID-Labels | 2 |
| | UN-No | UN1950 |
| ADN | Proper Shipping Name | Aerosols |
| | Hazard Class | 2 |
| | Classification Code | 5A |
| | 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 |

| International Inventories | | | |
|---------------------------|----------|-------|----------|
| TSCA | Complies | CHINA | Complies |
| DSL | Complies | KECL | Complies |
| EINECS/ELINCS | Complies | PICCS | Complies |
| ENCS | Complies | AICS | Complies |

15. REGULATORY INFORMATION

U.S. Federal Regulations :SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which 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 | Fire Hazard | No |
| Chronic Health 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 122.21 and 40 CFR 122.42).

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

Warning! This product contains chemical known to the State of California to cause cancer. (concentration <0.1%)

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--|---------------|------------|--------------|----------|--------------|
| Methylene bisphenyl isocyanate (MDI) | X | X | X | X | X |
| 1,1,1,2 – Tetrafluoroethane (HFC-134a, Fluorocarbon) | | | 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, 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 22-Feb-2007

Revision Date 24-Sept-2009

Revision Note Revised by Clayton Corporation EHS Department

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