



LOW RISE FOAM INSULATION ADHESIVE GREEN

Version 1.

Print Date 04/27/2011

REVISION DATE: 03/29/2011

This is a kit that contains the following components:

Low Rise Foam Insulation Adhesive Green Part A

Low Rise Foam Insulation Adhesive Green Part B

Low Rise Foam Insulation Adhesive Green Part A

Version 1.
REVISION DATE: 03/29/2011

Print Date 04/27/2011

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : Low Rise Foam Insulation Adhesive Green Part A
 Product code : 362300G304

COMPANY : Tremco Incorporated
 3735 Green Road
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST
 Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST
 After Hours: Chemtrec 1-800-424-9300

Product use : Joint filler

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Amber. Viscous solution. Vapor and/or mist may irritate nose and throat. May cause allergic respiratory sensitization. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : Vapor and/or mist may irritate nose and throat. May cause allergic respiratory sensitization.
 Eyes : Vapor and/or mist may cause eye irritation. May cause sensitization.
 Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
 Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Diphenylmethane diisocyanate (methylene bisphenyl isocyanate) caused an increased incidence of lung tumors in experimental animals following long term inhalation at concentrations in excess of 100 times the exposure limit. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Lung, Skin, Eye

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJ TSRN# 51721300-6383P	40.0 - 70.0
4,4'-Methylene bis(phenylisocyanate)	101-68-8	15.0 - 40.0

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Polymethylene polyphenyl isocyanate	9016-87-9	10.0 - 30.0
Siloxanes and Silicones	67762-90-7	1.0 - 5.0
Diphenylmethane diisocyanate	26447-40-5	0.1 - 1.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	:	Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
Skin contact	:	Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point	:	> 350 °F, > 177 °C
Method	:	Pensky-Martens Closed Cup
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Carbon monoxide and carbon dioxide can form. Smoke, fumes. Hydrocyanic acid and nitrogen oxides can form.
Protective equipment for firefighters	:	Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	This product not expected to ignite under normal conditions of use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Store under normal warehouse conditions. Change soiled work clothes frequently. Clean hands thoroughly after handling. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Use full engineering controls before relying on personal protective equipment. Wear appropriate, properly fitted air purifying respirator with combination particulate filter and vapor/gas removing cartridge when airborne contaminant level(s) exceed exposure limits indicated on the MSDS, or product is spray applied.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
4,4'-Methylene bis(phenylisocyanate)	101-68-8	ACGIH TWA:	0.005 ppm	
Polymethylene polyphenyl isocyanate	9016-87-9	ACGIH TWA:	0.005 ppm	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Viscous solution
- Color : Amber
- Odor : Faint Aromatic
- pH : Not available.
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.
- Freezing point : Not available.
- Boiling point/range : Not available.
- Water solubility : Reacts with water
- Specific Gravity : 1.11
- % Volatile Weight : 0 %

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SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Strong acids.Strong bases.Amines.Water or moisture.Alcohols.
 Stability : Material is stable under normal storage, handling, and use.
 Hazardous polymerization : Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

4,4'-Methylene bis(phenylisocyanate), CAS-No.: 101-68-8
 Acute inhalation toxicity (LC-50) 0.369 mg/l for 4 h (Rat) 0.38 mg/l for 4 h (Rat)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
 NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
 This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components : 4,4'-Methylene bis(phenylisocyanate) 101-68-8
 Polymethylene polyphenyl isocyanate 9016-87-9

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

4,4'-Methylene bis(phenylisocyanate) 101-68-8
 Polymethylene polyphenyl isocyanate 9016-87-9

OSHA Status: Considered : Irritant

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hazardous based on the following criteria: Sensitizer

OSHA Flammability : IIIB

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l

Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0 %

U.S. State Regulations:

MASS RTK Components : 4,4'-Methylene bis(phenylisocyanate) 101-68-8
Polymethylene polyphenyl isocyanate 9016-87-9

Penn RTK Components : Polyurethane Polymer NJ TSRN# 51721300-6383P
4,4'-Methylene bis(phenylisocyanate) 101-68-8
Polymethylene polyphenyl isocyanate 9016-87-9

NJ RTK Components : Polyurethane Polymer NJ TSRN# 51721300-6383P
4,4'-Methylene bis(phenylisocyanate) 101-68-8
Polymethylene polyphenyl isocyanate 9016-87-9
Siloxanes and Silicones 67762-90-7

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

None known.

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	1
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
DOT - Department of Transportation
DSL - Domestic Substance List

PEL - Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
RTK - Right To Know
SARA - Superfund Amendments and Reauthorization Act



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EPA - Environmental Protection Agency
HMIS - Hazardous Materials Information System
IARC - International Agency for Research on Cancer
MSHA - Mine Safety Health Administration
NDSL - Non-Domestic Substance List
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
V - Volume
VOC - Volatile Organic Compound
WHMIS - Workplace Hazardous Materials Information System

Low Rise Foam Insulation Adhesive Green Part B

Version 1.

Print Date 04/27/2011

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SECTION 1 - PRODUCT IDENTIFICATION

Trade name : Low Rise Foam Insulation Adhesive Green Part B
 Product code : 362300G304

COMPANY : Tremco Incorporated
 3735 Green Road
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST
 Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST
 After Hours: Chemtrec 1-800-424-9300

Product use : Curative

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Amber. Viscous solution. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause slight irritation to the respiratory system.
 Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
 Ingestion : May cause irritation to the mouth, throat and stomach. May cause chemical burns to stomach, mouth, nose, and throat.
 Skin : May cause moderate irritation. May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Prolonged and repeated overexposure to amines may cause liver and kidney damage based on animal studies. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyol	NJ TSN# 51721300-5660P	> 60.0
Siloxanes and Silicones	67762-90-7	1.0 - 5.0
2-Dimethylaminoethanol	108-01-0	1.0 - 5.0
Dipropylene glycol	25265-71-8	1.0 - 5.0

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SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- | | | |
|--------------|---|--|
| Inhalation | : | Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. |
| Eye contact | : | Flush with water for 15 minutes. If irritation persists, get medical attention. |
| Skin contact | : | Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately. |
| Ingestion | : | Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately. |

SECTION 5 - FIRE FIGHTING MEASURES

- | | | |
|---------------------------------------|---|---|
| Flash point | : | > 350 °F, > 177 °C |
| Method | : | Pensky-Martens Closed Cup |
| Lower explosion limit | : | Not available. |
| Upper explosion limit | : | Not available. |
| Autoignition temperature | : | Not available. |
| Extinguishing media | : | If water fog is ineffective, use carbon dioxide, dry chemical or foam. |
| Hazardous combustion products | : | Carbon monoxide, carbon dioxide, and nitrogen oxides. |
| Protective equipment for firefighters | : | Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). |
| Fire and explosion conditions | : | Product may ignite if heated in excess of its flash point. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Store under normal warehouse conditions in sealed containers. Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Handle in compliance with common hygienic practices. Clean hands thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

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- Respiratory protection : Use full engineering controls before relying on personal protective equipment. Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Protect hands with impervious gloves.
- Eye protection : Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use local exhaust when the general ventilation is inadequate.

Exposure Limits

No known components with exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Viscous solution
- Color : Amber
- Odor : Polyether
- pH : 9 - 10
- Vapour pressure : Not available.
- Vapor density : Not available.
- Melting point/range : Not available.
- Freezing point : Not available.
- Boiling point/range : Not available.
- Water solubility : Not available.
- Specific Gravity : 0.96
- % Volatile Weight : 0 %

SECTION 10 - REACTIVITY / STABILITY

- Substances to avoid : Acids.
- Stability : Stable under normal conditions. Avoid welding arcs, flames or other high temperature sources.
- Hazardous polymerization : Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

No Data Available

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SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Waste not regulated under RCRA. Dispose of in compliance with state and local regulations., Dispose in suitable container as non-hazardous waste according to all applicable regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components : None present or none present in regulated quantities.

SARA 311/312 Hazards : Based on an evaluation of the components used, this product does not contain hazardous ingredients identified as per 29 CFR 1910.1200

OSHA Hazardous Components :

OSHA Flammability : IIIB

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:
0 g/l

Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0 %

U.S. State Regulations:

MASS RTK Components : 2-Dimethylaminoethanol 108-01-0

Penn RTK Components : Polyol NJ TSRN# 51721300-5660P
2-Dimethylaminoethanol 108-01-0
Dipropylene glycol 25265-71-8

NJ RTK Components : Polyol NJ TSRN# 51721300-5660P

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Siloxanes and Silicones	67762-90-7
2-Dimethylaminoethanol	108-01-0
Dipropylene glycol	25265-71-8

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

None known.

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	1
Flammability	0
Reactivity	0
PPE	

- 0 = Minimum
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

Further information:

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Prepared by: Rich Mikol

Legend

- ACGIH - American Conference of Governmental Hygienists
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration

- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- RTK - Right To Know
- SARA - Superfund Amendments and Reauthorization Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System