

Frontier Products Incorporated

Safety Data Sheet
Edition Date: 3/6/2019

Section 1: Identification

- 1.1 **Trade Name:** UA-5
- 1.2 **Relevant use of the substance and restrictions on use:**
Recommended use: Adhesive
Restrictions: None
- 1.3 **Manufacturer/Supplier:**
Frontier Products Incorporated
4524 J D Mouser Parkway
Alvarado, TX 76009
E-Mail: www.frontierproductsinc.com
Phone: (682) 422-3817
- 1.4 **Emergency Telephone Number**
CHEMTREC 1-800-424-9300
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Section 2: Hazards Identification

2.1 Classification of the Substance



Respiratory sensitization	1
Skin sensitization	1
Eye irritant	2A

2.2 Label Elements



Signal Word
Danger

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
P280	Wear protective gloves.
P284	In case of inadequate ventilation, wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical attention/advice.
P342+P311.A	If experiencing respiratory symptoms: Call a POISON CENTER.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

HMIS rating (scale 0 – 4)	HEALTH	FLAMMABILITY	REACTIVITY
	1	1	0

2.3 Other Hazards

None known

Section 3: Composition / Information on Ingredients

Component	CAS Number	Percent	OSHA (PEL)	ACGIH (TLV-TWA)
MDI Isocyanate	101-68-8	1-3	0.02	0.005 ppm
Calcium Carbonate	1317-65-3	35-65	15 mg/m ³	10 mg/m ³

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye contact:	Rinse with water for at least 20 minutes while holding eye open. Seek medical attention immediately.
Skin contact:	Wash with plenty of soap and water. If irritation develops seek medical attention.
Inhalation:	Move to fresh air. If breathing is difficult, supply oxygen. If breathing has stopped, administer artificial respiration. Seek medical attention if symptoms persist.
Ingestion:	Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation
Eye damage

4.3 Indication of any immediate medical attention and special treatment needed

No relevant information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Use Carbon Dioxide (CO₂), dry chemical or water spray.

5.2 Special hazards arising from the substance / mixture

Do not inhale combustion gases.

5.3 Advise for fire fighters

Use self-contained breathing apparatus and protective clothing.
Do not release extinguishing water into the environment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Ventilate the area.

6.2 Environmental Procedures

Prevent entry into water drains, surface water and water supply.

6.3 Methods and material for containment and clean up

Use an absorbing material such as sand or earth. Place into containers and dispose of material in accordance with federal, state and local regulations.

6.4 Reference to other sections

Section 7: Handling and Storage
Section 8: Exposure Controls/Personal Protection
Section 13: Disposal Considerations

Section 7: Handling and storage

7.1 Precautions for safe handling

Use appropriate personal protective equipment (PPE). Avoid skin and eye contact. Ensure adequate ventilation and avoid inhalation of vapors.

7.2 Conditions for storage, including any incompatibilities

Store in a cool, dry, well ventilated area away from sources of ignition. Protect from water and high humidity.

Incompatible materials: None

7.3 Specific end use(s)

No information available

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Refer to Section 3.

8.2 Exposure Controls

Provide adequate ventilation and use personal protective equipment (PPE).

Individual protection measures

Eye/Face Protection: Safety glasses with side shields or safety goggles.

Skin Protection: Use gloves made of nitrile or rubber or other material resistant to the product. Wear protective work clothing.

Respiratory Protection: Respiratory protection is not normally required when used as directed. If exposure limits are exceeded or irritation occurs, use NIOSH approved respiratory equipment.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Paste
Odor	No data available
Odor Threshold	No data available
Color	Light Brown
pH	Not data available
Boiling Point	>300F
Flash Point	>250F

Flammability	Not flammable in a liquid state
Viscosity	No data available
Solubility in Water	Insoluble
Evaporation Rate	No data available
Vapor Density	No data available
Vapor Pressure	No data available
VOC	<30.0 g/l
Freezing Point	Undetermined

9.2 Other information

No further relevant information available

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None are known under normal use.

10.4 Conditions to avoid

Stable under normal conditions.

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

Decomposition by fire may produce carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

Acute toxicity	Not classified
Skin corrosion/irritation	May cause irritation
Serious eye damage/irritation	May cause irritation
Sensitization	May cause sensitization through inhalation May cause an allergic skin reaction
Germ Cell Mutagenicity	No data available
Reproductive Toxicity	No data available
Developmental Toxicity	No data available
Carcinogenicity	Not classified
STOT - Single Exposure	No data available
STOT - Repeated Exposure	No data available
Chronic Toxicity	Not known
Target Organ Effects	Eyes, Respiratory system, Skin.
Aspiration hazard	Not classified

Section 12: Ecological Information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of material and contaminated packaging in accordance with federal, state and local regulations.

Section 14: Transport Information

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport Hazard classes

Not applicable. Not regulated in transport.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Environments pollutant: Not applicable

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Section 15: Regulatory Information

TSCA

All components are listed on the TSCA inventory or are exempt.

SARA

Section 302: Extremely hazardous substances

None of the ingredients are listed.

Section 304: Hazardous substances

101-68-8 4,4-Methylenediphenylene diisocyanate

Section 313: Toxic chemical list

101-68-8 4,4-Methylenediphenylene diisocyanate

California Proposition 65

Substances listed

None of the ingredients are listed.

Massachusetts Right to Know

Substances listed

4,4-Methylenediphenylene diisocyanate
Calcium Carbonate

Pennsylvania Right to Know

Substances listed

4,4-Methylenediphenylene diisocyanate
Calcium Carbonate

New Jersey Right to Know

Substances listed

4,4-Methylenediphenylene diisocyanate
Calcium Carbonate

Section 16: Other information

All information contained in this Safety Data Sheet is accurate to the best of our knowledge. No warranty is expressed or implied regarding the accuracy or completeness of this information. No responsibility for personal injury, property damage or consequential damages caused by these products is assumed. The user assumes all risks associated with this product.