



Safety Data Sheets for: UFORCE URETHANE & 2 IN 1, Date of this edition: 5.10.18

Section 1: Identification

1.1.Product name: UFORCE URETHANE & 2 IN 1, 1.2.Relevant use of the substance and restrictions on use: Recommended use: Urethane Adhesive
Restrictions: N.A.

1.3.Supplier details:

Grautech Corporation, 519 E. Interstate 30 #722, Rockwall, TX 75087

E-Mail: info@uforceadhesives.com

Phone: (469) 717-0747

1.4.Emergency Telephone Number

Phone: 911

Section 2: Hazards Identification

2.1.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.

2.2.Precautionary Statements

P202 P264.2 P280.1 P284 P301+P310

P302+P352.A P304+P341

P305+P351+P338

P311.A+P342 P313+P333 P362+P364 P405

P501

Do not handle until safety precautions have been read and understood. Wash skin thoroughly after handling

Wear protective gloves and eye protection.

In case of inadequate ventilation, wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

IF ON SKIN: Wash with plenty of water.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If experiencing respiratory symptoms: Call a POISON CENTER.

If skin irritation or rash occurs: Get medical attention/advice.

Take off contaminated clothing and wash it before use.

Store locked up.

Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3.Classification System

HMIS rating (scale 0 – 4) HEALTH FLAMMABILITY REACTIVITY 110

Other Hazards None known



GHS label elements Hazard pictograms:
Signal word: Danger



Section 3: Composition / Information on Ingredients

Component
MDI Isocyanate
Calcium Carbonate

Section 4: First Aid Measures

4.1. Description of first aid measures

Eyes: Flush with large amounts of cool water for at least 15 minutes while holding eyelid open. Seek medical attention.

Skin: Remove contaminated clothing. Wash the contaminated area with soap and water. If rash or irritation or other symptoms persist, seek medical attention.

Inhalation: Remove to fresh air. If breathing has stopped initiate artificial respiration and obtain immediate medical attention.

Ingestion: Do not induce vomiting. Do not give anything by mouth. Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation
Eye damage
Skin irritation
Erythema

4.3. Indication of any immediate medical attention and special treatment needed Seek medical advice and take this safety data information if possible.

Section 5: Fire Fighting Measures

5.1. Extinguishing media

Pertinent extinguishing media are water and carbon dioxide gas.

5.2. Specific hazards arising from the substance / mixture

Combustion of this product may yield irritating or toxic gases.

5.3. Advise for fire fighters

Use self-contained breathing apparatus. Wear protective clothing. Do not discharge contaminated extinguishing water into drains.

CAS Number 101-68-8 1317-65-3

Weight Percent OSHA (PEL) <1% 0.02

35-60% 15 mg/m³

ACGIH (TLV-TWA) 0.005 ppm

10 mg/m³

Section 6: Accidental Release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.



6.2.Environmental Procedures

Prevent entry into drains and water courses.

6.3.Methods and material for containment and clean up

Absorbing material can be used such as dry sand or earth. Collect into containers for disposal.

6.4.reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

Section 7: Handling and storage

7.1.Precautions for safe handling

Avoid skin and eye contact and inhalation of vapors. Do not handle broken packaging without protective equipment.

7.2.Conditions for storage, including any incompatibilities

Store this product in a cool dry area, out of direct sunlight. Store in a well ventilated area away from all sources of ignition. There are no relevant incompatible materials.

7.3.Specific end use(s)

See section 1.2.

Section 8: Exposure Control / Personal Protection

8.1.Control parameters

Exposure parameters should fall under those listed in Section 3 of this safety data sheet.

8.2.Individual protection measures

Use in well ventilated areas only to maintain PEL / TLV levels below set exposure limits.

Due to the low V.O.C. nature of this product, respiratory protection is not normally required.

However, if PEL / TLV levels may potentially exceeded those listed in Section 3 of this safety data sheet, use NIOSH / MSHA approved respirator.

Eye Protection: Wear safety glasses or goggles as necessary to protect eyes.

Skin Contact: Protective gloves are recommended in situations when direct skin contact is unavoidable (nitrile, rubber or better).

Other Protective Equipment: Use other types of equipment as needed to help minimize contact.

Section 9: Physical and Chemical Properties

9.1.Information on basic physical and chemical properties

Appearance and Odor: Creamy liquids / low odor

Solubility in Water: Insoluble

Evaporation Rate (Compared to Butyl Acetate as 1.0): <1.0 Boiling Point: >300F

pH: N/A

Vapor Density (Air = 1.0): >1.0

Volatile Organic Content: <30.0 g/l Vapor Pressure: <1 mm Hg @ 75F / 24C Freezing Point: N/E

9.2.Other information

Section 10: Stability and Reactivity

10.1.Reactivity

This product is stable under normal conditions.

10.2.Chemical stability

This product is stable under normal conditions.



10.3.Possibility of hazardous reactions

No hazardous reactions in particular.

10.4.Conditions to avoid

This product is stable under normal conditions.

10.5.Incompatible materials

No incompatible groups noted.

10.6.Hazardous decomposition products

Decomposition in a fire may produce carbon monoxide (CO) and carbon dioxide (CO₂).

Section 11: Toxicological Information

11.1.Information on toxicological effects

Detrimental health effects are not expected as long as correct industrial hygiene and safety protocols are followed.

Section 12: Ecological Information

12.1.Toxicity

No data available.

12.2.Persistence and degradability

There is no data on the degradability of this product.

12.3.Bioaccumulative potential

No data available.

12.4.Mobility in soil

No data available.

12.5.Results of PBT and vPvB assessment

No data available.

12.6.Other adverse effects

No data available.

Section 13: Disposal Considerations

13.1.Waste treatment methods

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

Section 14: Transportation Information

14.1.UN number

Not applicable.

14.2.UN proper shipping name

Not applicable.

14.3.Transport Hazard classes

Not applicable.

14.4.Packaging group

Not applicable.

14.5.Environmental hazards

Environments pollutant: Not applicable Marine pollutant: No.



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

Component

MDI Isocyanate Calcium Carbonate

CAS Number 101-68-8 1317-65-3

Weight Percent OSHA (PEL) <1% 0.02

35-60% 15 mg/m³

ACGIH (TLV-TWA) 0.005 ppm

10 mg/m³

TSCA

SARA

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

Substances listed

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate) is listed.

Clean Air Act (CAA) Substances listed

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate) is listed.

Clean Water Act (CWA) Substances listed

No substances listed.

USA – State Specific Information

California Proposition 65 Substances listed

No substances listed.

Massachusetts Right to Know Substances listed

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate) Calcium Carbonate

Pennsylvania Right to Know Substances listed

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate)

All components in these products are listed except where written as exempt.

Section 302: Extremely hazardous substances

None listed.

Section 304: Hazardous substances

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate) is listed.

Section 313: Toxic chemical list

MDI Isocyanate (4,4-Methylenediphenylene diisocyanate) is listed.

Calcium Carbonate

New Jersey Right to Know Substances listed Calcium Carbonate

Section 16: Other information

All information set forth herein is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy or completeness of this information. No responsibility for personal injury or property damage to sellers, users or third parties caused by these materials is assumed. Such sellers or users assume all risks associated with this material.