



Material Safety Data Sheet

Date Of Issue: 9/15/08

1. Identification of substance:

Product name: Mistabond® H3168

Name: MarChem Corporation

Address: 2500 Adie Road, Maryland Heights, MO 63043

Telephone: 314-872-8700

Emergency phone number: CHEMTREC (800) 424-9300

2. Hazards identification:

HEALTH HAZARDS:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

3. Composition/Data on components:

Components

Polyurethane Prepolymer

CAS# 9042-82-4

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV TWA</u>	<u>NOISH PEL Ceiling</u>
Dicyclohexylmethane-4,4'-Diisocyanate CAS# 5124-30-1	N/E	0.005 ppm TWA	0.01 ppm Ceiling

4. First aid measures:

After skin contact: Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation develops.

After eye contact: Rinse opened eye for at least 15 minutes under running water. Call a physician at once.

After swallowing: Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

After inhalation: Remove from exposure area. Administer oxygen or artificial respiration as needed. Obtain medical attention.

5. Fire fighting measures:

Suitable extinguishing agents: Water spray, CO2, Foam, Dry chemical

Protective equipment: Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn by firefighters.

6. Accidental release measures:

Person-related safety precautions: Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Measures for environmental protection: Cover and contain spill with absorbent material. Place in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Dispose of in accordance with local regulations.

7. Handling and storage:**Handling:**

Information for safe handling: Keep containers tightly closed. Do not store above 150°F.

Information about protection against explosions and fires: Closed containers may rupture when exposed to extreme heat.

8. Exposure controls and personal protection:**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Respiratory protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately ventilated.

Protection of hands: Protective butyl rubber or nitrile rubber gloves.

Eye protection: Chemical safety goggles.

Body protection: Protective work clothing.

9. Physical and chemical properties:

Form: Viscous liquid

Color: Clear

Water solubility: Reacts with water.

Odor: Mild odor

Flash point: >300°F (PMCC)

Specific Gravity: 1.03

10. Stability and reactivity:

Avoid contact water, amines, strong bases, and alcohol.

Dangerous products of decomposition: Oxides of carbon, oxides of nitrogen, and traces of HCN.

11. Toxicological information:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

12. Ecological Information:

General Information: Based on experience no adverse effects are to be expected if correct disposal procedures have been followed.

13. Disposal Considerations

Disposal Classification Number:

Recommendation: Observe local requirements. Dispose of in accordance with local regulations.

14. Transport Information

Transport / Additional information

DOT (DOMESTIC SURFACE)

Proper shipping name: Other Regulated Substances, Liquid, N.O.S.

Hazard Class or Division: 9

UN/NA Number: NA3082

Packing Group: III

DOT Product RQ lbs (kgs): None

Hazard Label (s): Class 9

Hazard Placard (s): Class 9

IMO / IMDG CODE (OCEAN)

Hazard Class Division Number: Non-regulated

ICAO / IATA (AIR)

Proper Shipping Name: Aviation Regulated Liquid, N.O.S.

Hazard Class Division Number: 9

UN Number: UN3334

Subsidiary Risk: None

Packing Group: None

Hazard Label (s): Miscellaneous

Radioactive?: Non-radioactive

Passenger Packing Instruction: 906

Cargo Air – Max. Qty.: 220 Liters

Cargo Air Packing Instructions: 906

15. Regulatory information:**Labeling:**

Labeling according to EEC Directives/Ordinance on Hazardous Substances is not required.

Section 313 Supplier Notifications

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372:

<u>CAS#</u>	<u>Chemical Name</u>	<u>% By Weight</u>
5124-30-1	Dicyclohexylmethane-4,4'-Diisocyanate	31

16. Other information:**NFPA 704 Rating**

Health	3
Flammability	1
Reactivity	1
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health	3
Flammability	1
Physical Hazard	1

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

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet:

Product safety department



Material Safety Data Sheet

Date Of Issue: 4/5/08

1. Identification of substance:

Product name: Mistabond® H3025

Name: MarChem Corporation

Address: 2500 Adie Road, Maryland Heights, MO 63043

Telephone: 314-872-8700

Emergency phone number: CHEMTREC (800) 424-9300

2. Hazards identification:

HEALTH HAZARDS:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

3. Composition/Data on components:

Components

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NOISH PEL</u>
Methylene Bisphenyl	0.02 ppm	0.005 ppm	0.005 ppm
Isocyanate	Ceiling	TWA	TWA
CAS# 101-68-8			0.02 ppm Ceiling

4. First aid measures:

After skin contact: Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation develops.

After eye contact: Rinse opened eye for at least 15 minutes under running water. Call a physician at once.

After swallowing: Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

After inhalation: Remove from exposure area. Administer oxygen or artificial respiration as needed. Obtain medical attention.

5. Fire fighting measures:

Suitable extinguishing agents: Water spray, CO₂, Foam, Dry chemical

Protective equipment: Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn by firefighters.

6. Accidental release measures:

Person-related safety precautions: Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Measures for environmental protection: Cover and contain spill with absorbent material. Place in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Dispose of in accordance with local regulations.

7. Handling and storage:**Handling:**

Information for safe handling: Keep containers tightly closed. Do not store above 150°F.

Information about protection against explosions and fires: Closed containers may rupture when exposed to extreme heat.

8. Exposure controls and personal protection:**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Respiratory protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately ventilated.

Protection of hands: Protective butyl rubber or nitrile rubber gloves.

Eye protection: Chemical safety goggles.

Body protection: Protective work clothing.

9. Physical and chemical properties:

Form: Viscous liquid

Color: Clear

Water solubility: Reacts with water.

Odor: Mild odor

Flash point: >240°F (PMCC)

Specific Gravity: 1.10

10. Stability and reactivity:

Avoid contact water, amines, strong bases, and alcohol.

Dangerous products of decomposition: Oxides of carbon, oxides of nitrogen, and traces of HCN.

11. Toxicological information:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

12. Ecological Information:

General Information: Based on experience no adverse effects are to be expected if correct disposal procedures have been followed.

13. Disposal Considerations

Disposal Classification Number:

Recommendation: Observe local requirements. Dispose of in accordance with local regulations.

14. Transport Information**Land transport (DOT)**

Proper Shipping Name: Other regulated substances, liquid, n.o.s. (contains 4,4'-Diphenylmethane Diisocyanate (MDI))

Hazard Class or Division: 9

UN/NA Number: NA3082

Packaging Group: III

Hazard Label (s): Class 9

RSPA/DOT Regulated Components:

4,4'-Diphenylmethane Diisocyanate (MDI)

Reportable Quantity: 51,020 lbs

Additional Transportation Information

When in individual containers of less than the Product RQ, this material ships as non-regulated.

15. Regulatory information:

US. Toxic Substances Control Act: Listed on the TSCA inventory

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Methylene Bisphenyl Isocyanate Reportable quantity: 5,000 lbs

SARA Section 311/312 Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355,

Appendix A):**Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA)
SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier
Notification Required:**

Section 313 Supplier Notifications

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372:

<u>CAS#</u>	<u>Chemical Name</u>	<u>% By Weight</u>
101-68-8	Methylene Bisphenyl Isocyanate	9.8

16. Other information:

NFPA 704 Rating

Health	2
Flammability	1
Reactivity	1
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health	2
Flammability	1
Physical Hazard	1

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

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