



Yulee, FL

Oklahoma City, OK

Las Vegas, NV

## Section 1: Identification

### Product Identifier

**Trade Name:** ASF 2.0-A  
**Chemical Name:** Diphenylmethane Diisocyanate (MDI)  
**Recommended Use:** Component for production of polyurethanes  
**Restrictions on Use:**

### Chemical Manufacturer Information

**Name:** AMERICAN SPRAY FOAM  
**Address:** 80.5709 US Highway 17 Yulee, FL 32097  
**Website:** [www.AmericanSprayFoam.com](http://www.AmericanSprayFoam.com)  
**Phone:** 877-772-9629  
**Email:** [Sales@AmericanSprayFoam.com](mailto:Sales@AmericanSprayFoam.com)  
**Emergency Phone:** CHEMTREC: 800-424-9300

## Section 2: Hazard Identification

### Classification of the substance or mixture

GHS Classification:	
• Skin irritation, Category 2	• Acute toxicity, Inhalative, Category 4
• Sensitization of respiratory airways, Category 1	• Eye irritation, Category 2
• Carcinogenicity, Category 2	• Sensitization of the skin, Category 1
• Specific target organ toxicity (repeated exposure), Category 2	• Specific target organ toxicity (single exposure), Category 3

### GHS Labeling:



**Danger**

Hazard Statements:	
• May cause an allergic skin reaction	• Causes skin irritation
• Harmful if inhaled	• Causes serious eye irritation
• May cause respiratory irritation	• May cause allergy or asthma symptoms or breathing difficulties if inhaled
• May cause damage to organs through prolonged or repeated exposure	• Suspected of causing cancer

Precautionary Statements:	
• Do not breathe dust/fume/gas/mist/vapors/spray	• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
• Wear protective gloves/eye protection/face protection	• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• IF ON SKIN: Wash with plenty of soap and water	

**Other Hazards:** Persons with respiratory conditions should avoid handling this product.



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## Section 3: Composition

### Hazardous Components

Type of product: substance

CAS#	Weight %	Name
101-68-8	38.0%	Diphenylmethane-4,4'-diisocyanate (MDI)
26447-40-5	< 10.0%	MDI Mixed Isomers
9016-87-9	< 55.0%	P-MDI

## Section 4: First Aid Measures

<b>General:</b>	Remove contaminated clothing
<b>Inhalation:</b>	Remove affected individual to fresh air and keep person calm. Assist in breathing if necessary. Immediate medical attention required.
<b>Skin Contact:</b>	Wash affected areas with soap and water. Seek medical attention for irritation.
<b>Eye Contact:</b>	Rinse for at least 15 minutes with water. Immediate medical attention required.
<b>Ingestion:</b>	Rinse mouth and drink plenty of water. Do not induce vomiting. Immediate medical attention required.

## Section 5: Fire-Fighting Measures

<b>Suitable extinguishing media:</b>	Water, dry chemicals, CO <sub>2</sub>
<b>Unsuitable extinguishing media:</b>	High volume water jet
<b>Special hazards arising from the chemical:</b>	At temperatures above 400°F, MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Avoid water contamination in closed containers which may cause rupture (CO <sub>2</sub> is evolved).
<b>Precautions for firefighters:</b>	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

## Section 6: Accidental Release Measures

<b>Personal precautions, protective equipment, and emergency procedures:</b>	Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
<b>Environmental precautions:</b>	Do not discharge into drains/surface waters/groundwater
<b>Methods/material for containment and cleanup:</b>	Physically remove; cover remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO <sub>2</sub> ). Keep damp in a safe ventilated area for several days.

Spill area can be decontaminated with the following recommended decontamination solution:

Decontamination Solution #1: 8-10% sodium carbonate and 2% liquid soap in water

Decontamination Solution #2: Liquid/yellow soap (potassium soap with ~15% anionic surfactant): 20 ml; Water: 700 ml; Polyethylene glycol (PEG 400): 350 ml



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## Section 7: Handling and Storage

<b>Precautions for safe handling:</b>	Provide sufficient air exchange and/or exhaust in work rooms. Occupational exposure limits should not be exceeded (refer to Section 8). Contact with skin and eyes and inhalation of vapors must be avoided. Keep away from foodstuffs, drinks, and tobacco. Wash hands before breaks and at end of work.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep container tightly closed and protect against moisture. Segregate from bases. Store from 32F – 110F.

## Section 8: Exposure Controls and PPE

### Exposure Limits

Component	Type	Value
P-MDI	OSHA PEL	CLV 0.005 ppm 0.051mg/m <sup>3</sup>
Diphenylmethane-4,4'-diisocyanate (MDI)	OSHA PEL	CLV 0.005 ppm 0.051mg/m <sup>3</sup>

### Exposure Controls

<b>Respiratory Protection:</b>	Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.
<b>Hand, eye, skin, body protection:</b>	Chemical resistant protective gloves should be worn to prevent all skin contact. Wear eye/face protection. Wear suitable protective clothing

## Section 9: Physical and Chemical Properties

### Basic chemical and physical properties

<b>Appearance:</b>	liquid	<b>Flammability</b>	not applicable
<b>Color</b>	dark amber	<b>Upper/lower flammability or explosive limits</b>	Not applicable
<b>Odor</b>	Slightly aromatic	<b>Vapor pressure</b>	0.00016 mmHg
<b>Odor threshold</b>	not established	<b>Vapor density</b>	not established
<b>pH</b>	not established	<b>Relative density</b>	1.24
<b>Melting pt/freezing pt</b>	3° C	<b>Solubility(ies)</b>	Reacts with water
<b>Boiling pt/boiling range</b>	>300°C	<b>Partition coefficient (n-octanol/water)</b>	not established
<b>Flash point</b>	>250°C	<b>Auto-ignition temperature</b>	not applicable
<b>Evaporation rate</b>	not established	<b>Decomposition temperature</b>	not established

## Section 10: Stability and Reactivity

<b>Chemical stability:</b>	Polymerizes at about 200° C with evolution of CO <sub>2</sub>
<b>Possibility of hazardous reactions:</b>	Exothermic reaction with amines and alcohols; reacts with water forming CO <sub>2</sub> ; in closed containers, risk of bursting owing to increase of pressure
<b>Conditions to avoid:</b>	Avoid moisture
<b>Incompatible materials:</b>	water, alcohols, strong bases, amines



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<b>Hazardous decomposition products:</b>	By high heat or fire; CO, CO <sub>2</sub> , NO <sub>x</sub> , benzene, toluene, aliphatic fragments and traces of HCN
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## Section 11: Toxicological Information

<b>Acute toxicity (inhalation):</b>	LC50: 490mg/kg , vapor, 4hr rat
<b>Chronic toxicity:</b>	2 years, inhalation; NOAEL: 0.2mg/m <sup>3</sup> , (rat, Male/Female, 6hrs/day 5 days/week)
<b>Likely routes of exposure:</b>	Skin, inhalation
<b>Symptoms related to physical, chemical and toxicological characteristics:</b>	Minor skin irritation; asthma-like symptoms
<b>Delayed and immediate effects and chronic effects from short and long-term exposure:</b>	Possible sensitization
<b>Numerical toxicity measures:</b>	

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	LC0: >1,000mg/l (Zebra fish 96 hrs) LC0: >3,000mg.l (Killifish 96hrs)
<b>Persistence and degradability:</b>	0%
<b>Bioaccumulative potential:</b>	Does not bioaccumulate
<b>Mobility in soil:</b>	

## Section 13: Disposal

<b>Waste disposal:</b>	Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system. Do not burn empty drums or cut open with gas or an electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.
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## Section 14: Transport

### Land transport

<b>USDOT</b>	Not classified as dangerous good
<b>China</b>	Not classified as dangerous good

### Sea transport

<b>IMDG</b>	Not classified as dangerous good
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### Air transport

<b>IATA/ICAO</b>	Not classified as dangerous good
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### Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Refer to Section 15 for the RQ of this product.



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## Section 15: Regulatory

<b>Relevant safety, health, and environmental regulations:</b>	
<b>Inventory Status:</b>	TSCA listed
<b>US Regulations:</b>	Not regulated
<b>US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:</b>	Methylene Bis Phenylisocyanate 101-68-8 5000 lbs. (Same as Diphenylmethane diisocyanate (MDI) Polymeric Diphenylmethane diisocyanate 9016-87-9

## Section 16: Other

<b>SDS Preparation Date:</b>	05/08/2017
<b>Revision Date:</b>	10/24/2017
<b>Revision 2 Date:</b>	10/27/2017

### IMPORTANT NOTICES

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