

SAFETY DATA SHEET

## Fusionbond 371B

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier

*Trade name:* Fusionbond 371B  
*Product no.:* MS-371B

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Adhesive  
Restricted to professional users.  
*Uses advised against :* None known.

#### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Hernon Manufacturing Inc**  
121 Tech Drive  
FL 32771 Sanford  
USA  
T: +1-407-322-4000  
www.hernon.com

*Contact person:* Hernon SDS Coordinator  
*E-mail:* customerservice@hernon.com

*SDS date:* 1/2/2025

*SDS Version:* 1.0

*Date of previous version:* 1/2/2025 (1.0)

#### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webpoisoncontrol (triage.webpoisoncontrol.org) to get specific guidance for your case.

VelocityEHS:

+1-800-255-3924 (USA)

+1-813-248-0585 (International)

1-300-954-583 (Australia)

0-800-591-6042 (Brazil)

400-120-0751 (China)

000-800-100-4086 (India)

800-099-0731 (Mexico)

Contract #: (MIS0002665)

### SECTION 2: HAZARD(S) IDENTIFICATION

#### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.  
Skin Irrit. 2; H315, Causes skin irritation.  
Skin Sens. 1; H317, May cause an allergic skin reaction.  
STOT SE 3; H335, May cause respiratory irritation.

## 2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

Highly flammable liquid and vapour. (H225)  
Causes skin irritation. (H315)  
May cause an allergic skin reaction. (H317)  
May cause respiratory irritation. (H335)

Precautionary statement(s):

General:

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Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)  
Keep container tightly closed. (P233)  
Avoid breathing mist/vapour. (P261)  
Wash hands and exposed skin thoroughly after handling. (P264)  
Contaminated work clothing should not be allowed out of the workplace. (P272)  
Wear eye protection/protective clothing. (P280)

Response:

Call a POISON CENTER/doctor if you feel unwell. (P312)  
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
Take off contaminated clothing and wash it before reuse. (P362+P364)  
In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish. (P370+P378)

Storage:

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)  
Store in a well-ventilated place. Keep cool. (P403+P235)

Disposal:

Dispose of contents/container in accordance with local regulation (P501)

Additional labelling:

Not applicable.

## 2.3. Other hazards

Additional warnings:

The material contains peroxide forming substances in Group C. Group C includes solvents and other chemicals, where the formation of peroxides may initiate exothermic polymerisation.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
methyl methacrylate	CAS No.: 80-62-6	60-100%	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	CAS No.: 34562-31-7	1-5%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

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## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures

*General information:*

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

*Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

*Skin contact:*

IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

*Eye contact:*

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

*Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do

not induce vomiting, unless recommended by the doctor.  
Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

*Burns:*

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

**Sensitisation:** This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

**Neurotoxic effects:** This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Call a POISON CENTER/doctor if you feel unwell.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

## 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

The product should be tested for peroxide formation or discarded after 6 months.

Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use:

1. Material appears to be degraded and or contaminated.
2. Material appears to be discolored.
3. Deterioration or distortion of storage container.
4. Thermal shock (sunlight).
5. Age of material exceeds recommended storage time.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

*Recommended storage material:* Always store in containers of the same material as the original container.

*Storage conditions:* Dry, cool and well ventilated  
Store in unopened containers at a temperature between 45°F and 75°F (7°C and 24°C) unless otherwise labeled.  
Protect from moisture.

*Incompatible materials:*

Protect from sunlight.  
Remove Static Electricity. Ground Container and Equipment. Keep in an area equipped with sprinklers.

Acids  
Bases  
Peroxides  
Strong oxidizing agents  
Combustible materials

**7.3. Specific end use(s)**  
This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**  
methyl methacrylate  
Short term exposure limit (STEL) (ACGIH TLV) (ppm): 100  
Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 410  
Long term exposure limit (OSHA Table Z-1) (ppm): 100  
Long term exposure limit (ACGIH TLV) (ppm): 50

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

**8.2. Exposure controls**  
Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:* The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* Take off contaminated clothing and wash it before reuse.

*Measures to avoid environmental exposure:* No specific requirements.


### Individual protection measures, such as personal protective equipment

*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.


*Skin protection:*

Recommended	Type/Category	Standards	
-	Protective Clothing		

*Hand protection:*

Nitrile Rubber

*Eye protection:*

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
▼ <i>Color:</i>	Off White , Off White , Beige
<i>Odor:</i>	Sharp/pungent
<i>Odor threshold (ppm):</i>	No data available
<i>pH:</i>	No data available
<i>Density (g/cm<sup>3</sup>):</i>	0.97
<i>Kinematic viscosity:</i>	No data available
<i>Particle characteristics:</i>	No data available

#### Phase changes

<i>Melting point/freezing point (°F):</i>	No data available
<i>Softening point/range (°F):</i>	Does not apply to liquids.
<i>Boiling point (°F):</i>	>214
<i>Boiling point (°C):</i>	>101
<i>Vapor pressure:</i>	<29.2 mmHg (20 °C)
<i>Relative vapor density:</i>	No data available
<i>Decomposition temperature (°F):</i>	No data available

#### Data on fire and explosion hazards

<i>Flash point (°F):</i>	>50
<i>Flash point (°C):</i>	>10
<i>Flammability (°F):</i>	The material is ignitable.
<i>Auto-ignition temperature (°F):</i>	No data available

*Explosion limits (% v/v):* No data available

## Solubility

*Solubility in water:* Slightly soluble

*n-octanol/water coefficient (LogKow):* No data available

*Solubility in fat (g/L):* No data available

## 9.2. Other information

*Evaporation rate (n-butylacetate = 100):* No data available

*Other physical and chemical parameters:* No data available.

*Oxidizing properties:* No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

### 10.2. Chemical stability

Risk of peroxide formation starting an exothermic polymerization.

### 10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

### 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

Incompatible Materials

Mechanical influences (e.g. Shock, pressure, impact, friction). Fire, sparks or other ignition sources.

Extremes of temperature

Sunlight

Moisture

### 10.5. Incompatible materials

Acids

Bases

Peroxides

Strong oxidizing agents

Reducing agents

Combustible materials

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity



Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Other information**

methyl methacrylate has been classified by IARC as a group 3 carcinogen.

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## **SECTION 12: ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

Based on available data, the classification criteria are not met.

**12.3. Bioaccumulative potential**

Based on available data, the classification criteria are not met.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**  
None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**



**RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)**  
methyl methacrylate is listed with EPA Hazardous Waste Number: U162


**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informat ion:
DOT	UN1133	ADHESIVES	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN1133	ADHESIVES	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L EmS: F-E S-D See below for additional information.
IATA	UN1133	ADHESIVES	Transport hazard class: 3 Label: 3	III	No	See below for

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
			Classification code: F1 			additional information.

\* Packing group

\*\* Environmental hazards

### Additional information

This product is within scope of the regulations of transport of dangerous goods. DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport. IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport. IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to IMO instruments

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. U.S. Federal regulations

*TSCA (the non-confidential portion):* methyl methacrylate is listed  
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine is listed

*Clean Air Act:* methyl methacrylate is regulated as a hazardous air pollutant (HAPS)

*EPCRA Section 302:* None of the components are listed

*EPCRA Section 304:* None of the components are listed

*EPCRA section 313:* methyl methacrylate is listed

*CERCLA:* methyl methacrylate is regulated with a Reportable Quantity (RQ) of: 1000 pounds

*Hazardous chemical inventory reporting:* This product is subject to Tier II reporting.

### State regulations

*California / Prop. 65:* None of the components are listed

*Massachusetts / Right To Know Act:* methyl methacrylate is listed

*New Jersey / Right To Know Act:* methyl methacrylate / Substance number: 1277  
methyl methacrylate is on the Special Health Hazard

## Substance List

### *New York / Right To Know Act:*

—  
methyl methacrylate is listed  
methyl methacrylate is regulated with a Reportable Quantity (RQ) of: 1000 pounds  
methyl methacrylate is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds

### *Pennsylvania / Right To Know Act:*

—  
methyl methacrylate is listed  
methyl methacrylate is hazardous to the environment (E)

## 15.4. Restrictions for application

Restricted to professional users.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

## 15.5. Demands for specific education

No specific requirements.

## 15.6. Additional information

Not applicable.

## 15.7. Chemical safety assessment

No

## 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.  
H302, Harmful if swallowed.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H335, May cause respiratory irritation.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists  
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
DOT = Department of Transportation  
EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HCIS = Hazardous Chemical Information System  
HNOC = Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TSCA = The Toxic Substances Control Act  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The classification of the mixture in regard to physical hazards has been based on experimental data.

### **The safety data sheet is validated by**

SDS Coordinator

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en