

## SAFETY DATA SHEET

# Fusionbond 3780-05B

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Fusionbond 3780-05B  
*Product no.:* MS-3780-05B

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

*Relevant identified uses of the substance or mixture:* Adhesive  
*Uses advised against:* 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](http://www.hernon.com)

*Contact person:* Hernon SDS Coordinator  
*E-mail:* [customerservice@hernon.com](mailto:customerservice@hernon.com)  
*SDS date:* 5/15/2025  
*SDS Version:* 3.0  
*Date of previous version:* 4/1/2025 (2.0)

### 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**

Skin Irrit. 2; H315, Causes skin irritation.  
Skin Sens. 1; H317, May cause an allergic skin reaction.  
Eye Irrit. 2; H319, Causes serious eye irritation.  
STOT SE 3; H335, May cause respiratory irritation.  
Repr. 1B; H360, May damage fertility or the unborn child.

**2.2. Label elements**

*Hazard pictogram(s):*



**Danger**

**▼ Signal word:**

**▼ Hazard statement(s):**

Causes skin irritation. (H315)  
May cause an allergic skin reaction. (H317)  
Causes serious eye irritation. (H319)  
May cause respiratory irritation. (H335)  
May damage fertility or the unborn child. (H360)

*Precautionary statement(s):*

*General:*

-

**▼ Prevention:**

Obtain special instructions before use. (P201)  
Avoid breathing mist/vapour. (P261)  
Wash hands thoroughly after handling. (P264)  
Contaminated work clothing should not be allowed out of the workplace. (P272)  
Wear eye protection/protective clothing. (P280)

**▼ Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
IF exposed or concerned: Get medical advice/attention. (P308+P313)  
Call a POISON CENTER/doctor if you feel unwell. (P312)  
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
If eye irritation persists: Get medical advice/attention. (P337+P313)  
Take off contaminated clothing and wash it before reuse. (P362+P364)

**▼ Storage:**

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

*Disposal:*

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

*Additional labelling:*

Not applicable.

**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
Tetrahydrofurfuryl methacrylate	CAS No.: 2455-24-5	40-60%	Skin Sens. 1, H317 Repr. 1B, H360	
Isobornyl Methacrylate	CAS No.: 7534-94-3	25-40%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	CAS No.: 34562-31-7	5-10%	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:* Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

▼ *Eye contact:* If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. 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:** Not applicable.

**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.

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

If eye irritation persists: Get medical advice/attention.

**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**

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**

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**

Avoid direct contact with the product.

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**

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

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

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

*Incompatible materials:* Strong oxidizing agents  
Alkali  
Amines  
Acids  
Bases  
Reducing agents  
Peroxides  
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**

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

#### **8.2. ▼ Exposure controls**

Apply general control to prevent unnecessary exposure

*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:* Occupational exposure limits have not been defined for the substances in this product.

*Appropriate technical measures:* Apply standard precautions during use of the product.

Avoid inhalation of vapours.

▼ *Hygiene measures:*

*Measures to avoid environmental exposure:*

Take off contaminated clothing and wash it before reuse.

Keep damming materials near the workplace. If possible, collect spillage during work.

## 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>	Yellow
<i>Odor:</i>	Mild
<i>Odor threshold (ppm):</i>	No data available
<i>pH:</i>	No data available
<i>Density (g/cm³):</i>	1.06
<i>Relative density:</i>	No data available
<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>	No data available
<i>Vapor pressure:</i>	No data available

*Relative vapor density:* No data available

*Decomposition temperature (°F):* No data available

### **Data on fire and explosion hazards**

*Flash point (°F):* No data available

*Flammability (°F):* No data available

*Auto-ignition temperature (°F):* No data available

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

### **Solubility**

*Solubility in water:* No data available

*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**

No data available.

### **10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

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

None known.

### **10.4. Conditions to avoid**

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

Incompatible Materials

Extremes of temperature

Moisture

Sunlight

### **10.5. Incompatible materials**

Strong oxidizing agents

Alkali

Amines

Acids

Bases

Combustible materials

Reducing agents

Peroxides

### **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

Causes serious eye irritation.

#### 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

May damage fertility or the unborn child.

#### ▼ 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.

#### Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. ▼ Toxicity

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

### 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)

None of the components are listed

#### 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	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### ▼Additional information

Not dangerous goods according to DOT, IATA and IMDG.

#### 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):* Tetrahydrofurfuryl methacrylate is listed  
Isobornyl Methacrylate is listed  
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine is listed

*Clean Air Act:* None of the components are listed

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

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<i>EPCRA Section 304:</i>	None of the components are listed
<i>EPCRA section 313:</i>	None of the components are listed
<i>CERCLA:</i>	None of the components are listed
<i>Hazardous chemical inventory reporting:</i>	This product is subject to Tier II reporting.

### **State regulations**

<i>California / Prop. 65:</i>	None of the components are listed
<i>Massachusetts / Right To Know Act:</i>	None of the components are listed
<i>New Jersey / Right To Know Act:</i>	None of the components are listed
<i>New York / Right To Know Act:</i>	None of the components are listed
<i>Pennsylvania / Right To Know Act:</i>	None of the components are listed

### **15.4. Restrictions for application**

Restricted to professional users.

### **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)

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## **SECTION 16: OTHER INFORMATION**

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

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.  
H360, May damage fertility or the unborn child.

### **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 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