

SAFETY DATA SHEET

Fusionbond 3780-05A

SECTION 1: IDENTIFICATION

1.1. Product identifier

▼ *Trade name:* Fusionbond 3780-05A

▼ Product no.: MS-3780-05A

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

Relevant identified uses of the Adhesive

substance or mixture: 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: 4/1/2025

SDS Version: 2.0

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 Dam. 1; H318, Causes serious eye damage. STOT SE 3; H335, May cause respiratory irritation.

Carc. 2; H351, Suspected of causing cancer.

Repr. 2; H361, Suspected of damaging fertility or the unborn child.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s): Causes skin irritation. (H315)

May cause an allergic skin reaction. (H317)

Causes serious eye damage. (H318) May cause respiratory irritation. (H335) Suspected of causing cancer. (H351)

Suspected of damaging fertility or the unborn child. (H361)

Precautionary statement(s):

General: -

Prevention: Obtain special instructions before use. (P201)

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: 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)

Immediately call a POISON CENTER/doctor. (P310)

If skin irritation or rash occurs: Get medical

advice/attention. (P333+P313)

Take off contaminated clothing and wash it before reuse.

(P362+P364)

Store in a well-ventilated place. Keep container tightly

closed. (P403+P233)

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
2-phenoxyethyl methacrylate	CAS No.: 10595-06-9	40-70%	Skin Sens. 1A, H317 Repr. 2, H361	
methacrylic acid	CAS No.: 79-41-4	5-10%	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1A, H314 (SCL: 10.00 %) Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 (SCL: 1.00 %)	
Polyethylene Glycol Dimethacrylate	CAS No.: 25852-47-5	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	
tert-butyl perbenzoate	CAS No.: 614-45-9	1-5%	Org. Perox. C, H242 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4, H332	
methyl methacrylate	CAS No.: 80-62-6	1-5%	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	
1,3 Butylene Glycol Dimethacrylate	CAS No.: 1189-08-8	1-5%	Skin Sens. 1B, H317	
Butyl Hydroxy Toluene	CAS No.: 128-37-0	1-5%		

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

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 with plenty of water or salt water (20-

 $30\,^{\circ}\text{C}$) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately 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: 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.

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate 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:

Carbon oxides (CO / CO2)



Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

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.

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.

Recommended storage material: Always store in containers of the same material as the

original container.

Storage conditions: Store in unopened containers at a temperature between

45°F and 75°F (7°C and 24°C) unless otherwise labeled.

Dry, cool and well ventilated Protect from moisture. Protect from sunlight.

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

Incompatible materials: Strong oxidizing agents





Acids Bases

Combustible materials

Peroxides

Reducing agents

Amines Alkali

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/m³): 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.

Professional users are subjected to the legally set **Exposure limits:**

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.

Ensure that eyewash stations and safety showers are

located within easy reach.

Apply standard precautions during use of the product.

Avoid inhalation of vapours.

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

Measures to avoid environmental Keep damming materials near the workplace. If possible,

collect spillage during work.

exposure:

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		R

Hand protection: Nitrile Rubber

Eye protection:

Туре	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Amber
Odor: Mild

Odor threshold (ppm): No data available pH: No data available

Density (q/cm^3) : 1.06

Relative density:

Kinematic viscosity:

No data available

Particle characteristics:

No data available

Phase changes

Melting point/freezing point (°F): No data available

Softening point/range (°F): Does not apply to liquids.

Boiling point (°F):

Vapor pressure:

Relative vapor density:

Decomposition temperature (°F):

No data available

No data available

Data on fire and explosion hazards

Flash point (°F):

Flammability (°F):

No data available

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

Solubility

Solubility in water:

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

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.

Extremes of temperature

Sunlight

Incompatible Materials

Moisture

10.5. Incompatible materials

Strong oxidizing agents

Acids

Bases

Amines

Alkali

Reducing agents

Combustible materials

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 damage.

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

Suspected of causing cancer.

Reproductive toxicity

Suspected of damaging 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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Other information

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

Butyl Hydroxy Toluene has been classified by IARC as a group 3 carcinogen.

Talc has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2- phenoxyethyl methacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	Limited quantitie s: 5 L Tunnel restrictio n code: (-) See below for additiona I informati on.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	Limited quantitie s: 5 L EmS: F-A S-F See below for additiona I informati on.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2- phenoxyethyl methacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	See below for additiona I informati on.

^{*} Packing group



** Environmental hazards

Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of DOT/IMDG/IATA provided the packaging's meet the general specifications for packaging: Part 178 (DOT) / 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

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.

Transport in bulk according to IMO instruments 14.7.

No data available.

SECTION 15: REGULATORY INFORMATION

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

15.2. U.S. Federal regulations

TSCA (the non-confidential portion): 2-phenoxyethyl methacrylate is listed

methacrylic acid is listed

Polyethylene Glycol Dimethacrylate is listed

tert-butyl perbenzoate is listed methyl methacrylate is listed

1,3 Butylene Glycol Dimethacrylate is listed

Butyl Hydroxy Toluene is listed

Talc 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: methacrylic acid is listed

tert-butyl perbenzoate is listed





methyl methacrylate is listed Butyl Hydroxy Toluene is listed

Talc is listed

New Jersey / Right To Know Act:

methacrylic acid / Substance number: 1199

methacrylic acid is on the Special Health Hazard Substance

List

tert-butyl perbenzoate / Substance number: 1794 tert-butyl perbenzoate is on the Special Health Hazard

Substance List

methyl methacrylate / Substance number: 1277 methyl methacrylate is on the Special Health Hazard

Substance List

Butyl Hydroxy Toluene / Substance number: 0814

Talc / Substance number: 1773 (not containing asbestos fibers, not SHHS) / 4203 (containing asbestos fibers, SHHS)

Talc is on the Special Health Hazard Substance List

New York / Right To Know Act:

methacrylic acid is listed

methacrylic acid is regulated with a Treshold Reporting

Quantity (TRQ) of: 1 pounds

tert-butyl perbenzoate is listed

tert-butyl perbenzoate is regulated with a Treshold

Reporting Quantity (TRQ) of: 10 pounds

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

Butyl Hydroxy Toluene is listed

Butyl Hydroxy Toluene is regulated with a Treshold

Reporting Quantity (TRQ) of: 0 pounds

__

Pennsylvania / Right To Know Act:

methacrylic acid is listed

tert-butyl perbenzoate is listed

methyl methacrylate is listed

methyl methacrylate is hazardous to the environment (E)

Butyl Hydroxy Toluene is listed

Talc is listed

__

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.

H242, Heating may cause a fire.

H302, Harmful if swallowed.

H311, Toxic in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H361, Suspected of damaging 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

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