

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issue Date 30-Jun-2015

Revision Date 03-Mar-2023

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code** MS-59621  
**Product Name** Ammunition Sealant 59621

Contains ACRYLIC ACID, ETHYLENE GLYCOL DIMETHACRYLATE

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

**Recommended Use** UV Anaerobic Adhesive

**Uses advised against** None known

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

#### Manufacturer

Hernon Manufacturing Inc.  
121 Tech Drive  
Sanford, FL 32771  
800-527-0004

For further information, please contact

**Contact Point** customerservice@hernon.com

### 1.4. Emergency telephone number

Emergency Telephone Chemtel 800-255-3924

**Emergency Telephone - §45 - (EC)1272/2008**

**Europe** 112

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1 - (H317)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

### 2.2. Label elements

#### **Product identifier**

Contains ACRYLIC ACID, ETHYLENE GLYCOL DIMETHACRYLATE

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see supplemental first aid instructions on this label)

**2.3. Other hazards**

Diluent

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
2-PHENOXYETHYL ACRYLATE ESTER	256-360-6	48145-04-6	48.8	Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Chronic 2 (H411)	<1.0%
ISOOCTYL ACRYLATE	249-707-8	29590-42-9	10 - 30	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	<1.0%
ETHYLENE GLYCOL DIMETHACRYLATE	202-617-2	97-90-5	3 - 7	Skin Sens. 1 (H317) STOT SE 3 (H335)	<1.0%
ACRYLIC ACID	201-177-9	79-10-7	1 - 5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)	<1.0%
PHOTOINITIATOR	423-340-5	162881-26-7	3	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)	<1.0%
CUMENE HYDROPEROXIDE	201-254-7	80-15-9	0.1 - 1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Corr. 1B (H314) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Org. Perox. E (H242)	<1.0%
Fluoroaliphatic Polymeric Ester	Viscous	MIXTURE	0.05	<1.0%	<1.0%

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Skin contact</b>	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

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

**Symptoms** None known.

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

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media**  
Use CO2, dry chemical, or foam.

**Unsuitable extinguishing media**  
Not Applicable

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

Not Applicable

<b>Hazardous combustion products</b>	Irritating organic vapors.
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### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**  
Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**For emergency responders**  
Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. See section 12 for additional ecological information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Store in a closed container until ready for disposal.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep at temperatures between 46°F and 82°F (8°C and 28°C).

**Incompatible materials**

Strong oxidizer. Strong reducers. Free radical initiators. Inert gases.

**7.3. Specific end use(s)****Specific use(s)**

Adhesives and/or sealants.

**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
ACRYLIC ACID 79-10-7	Viscous	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> STEL: 10 ppm STEL: 30 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 20 ppm STEL: 59 mg/m <sup>3</sup> via dérmica*	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
ACRYLIC ACID 79-10-7	TWA: 29 ppm TWA: 10 mg/m <sup>3</sup> STEL: 59 ppm STEL: 20 mg/m <sup>3</sup> pelle*	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup> STEL: 20 ppm	TWA: 29 mg/m <sup>3</sup> STEL: 59 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> Ceiling: 15 ppm Ceiling: 45 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 5.9 mg/m <sup>3</sup> H*
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
ACRYLIC ACID 79-10-7	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup>	STEL: 29.5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 43.5 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 29 mg/m <sup>3</sup>

	STEL 20 ppm STEL 59 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>			STEL: 20 ppm STEL: 59 mg/m <sup>3</sup>
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Derived No Effect Level (DNEL) Not Applicable

Predicted No Effect Concentration (PNEC) Not Applicable

**8.2. Exposure controls**

Engineering Controls Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Eye/face protection Wear safety glasses with side shields (or goggles).
- Hand Protection Gloves made of plastic or rubber.
- Skin and body protection Suitable protective clothing.
- Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls Not Applicable

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state	Liquid	Odor	Mild
Appearance	Translucent	Odor threshold	Not Applicable
Color	Red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Does not apply	Diluent
Melting point / freezing point		Diluent
Boiling point / boiling range	> 149 °C / 300 °F	
Flash point	> 93.3 °C / 200 °F	
Evaporation rate		Diluent
Flammability (solid, gas)		Diluent
Flammability Limit in Air		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		
Vapor density		Not Applicable
Relative density	1.03	
Water solubility	Slightly soluble	
Solubility(ies)		Not Applicable
Partition coefficient		Not Applicable
Autoignition temperature		Not Applicable
Decomposition temperature		Not Applicable
Kinematic viscosity		Not Applicable
Dynamic viscosity		Not Applicable
Explosive properties	Not Applicable	
Oxidizing properties	Not Applicable	

**9.2. Other information**

Softening point	Not Applicable
Molecular weight	Not Applicable
VOC Content (%)	Not Applicable
Density	Not Applicable
Bulk density	Not Applicable

**Section 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

Not Applicable

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

**10.3. Possibility of hazardous reactions****Possibility of Hazardous Reactions**

May occur upon inhibitor depletion.

**10.4. Conditions to avoid**

Incompatible materials.

**10.5. Incompatible materials**

Strong oxidizer. Strong reducers. Free radical initiators. Inert gases.

**10.6. Hazardous decomposition products**

Irritating organic vapors.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information**

<b>Inhalation</b>	Not Applicable
<b>Eye contact</b>	Not Applicable
<b>Skin contact</b>	Not Applicable
<b>Ingestion</b>	Not Applicable

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3,355.00 mg/kg

ATEmix (dermal) 2,725.00 mg/kg

ATEmix (inhalation-dust/mist) 1.30 mg/l

**Unknown acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-PHENOXYETHYL ACRYLATE ESTER	= 4660 µL/kg ( Rat )		
ISOOCTYL ACRYLATE	> 5 g/kg ( Rat )		
ETHYLENE GLYCOL DIMETHACRYLATE	= 3300 mg/kg ( Rat )		
ACRYLIC ACID	= 193 mg/kg ( Rat )	= 295 mg/kg ( Rabbit )	= 11.1 mg/L ( Rat ) 1 h = 3.6 mg/L ( Rat ) 4 h
PHOTOINITIATOR	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	

**Skin corrosion/irritation** Not Applicable

Serious eye damage/eye irritation	Not Applicable
Sensitization	Not Applicable
Germ cell mutagenicity	Not Applicable
Carcinogenicity	Not Applicable
Reproductive toxicity	Not Applicable
STOT - single exposure	Not Applicable
STOT - repeated exposure	Not Applicable
Aspiration hazard	Not Applicable

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ISOOCTYL ACRYLATE	Viscous	0.67: 96 h Pimephales promelas mg/L LC50	0.4: 48 h Daphnia magna mg/L EC50
ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE	Viscous	1.95: 96 h Danio rerio mg/L LC50 static	Viscous
ETHYLENE GLYCOL DIMETHACRYLATE	Viscous	15.95: 96 h Danio rerio mg/L LC50 static	Viscous
ACRYLIC ACID	0.04: 72 h Desmodosmus subspicatus mg/L EC50 0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50	222: 96 h Brachydanio rerio mg/L LC50 semi-static	95: 48 h Daphnia magna mg/L EC50
PHOTOINITIATOR	Viscous	90: 96 h Danio rerio µg/L LC50 semi-static	Viscous

### 12.2. Persistence and degradability

Not Applicable

### 12.3. Bioaccumulative potential

Not Applicable

Chemical Name	Partition coefficient
ACRYLIC ACID	0.46

### 12.4. Mobility in soil

Not Applicable

### 12.5. Results of PBT and vPvB assessment

Not Applicable

### 12.6. Other adverse effects

Not Applicable

### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.

### Section 14: TRANSPORT INFORMATION

#### IMDG

<b>14.1 UN/ID no.</b>	UN 3082
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	Limited Quantities: 5 L, 30 kg gross weight
<b>14.5 Marine pollutant</b>	Yes
<b>14.6 Special Provisions</b>	274, 335, 969
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not Applicable

#### RID

<b>14.1 UN/ID no.</b>	UN 3082
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Limited Quantities: 5 L, 30 kg gross weight
<b>14.6 Special Provisions</b>	Yes

#### ADR

<b>14.1 UN/ID no.</b>	UN 3082
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Limited Quantities: 5 L, 30 kg gross weight
<b>14.6 Special Provisions</b>	Yes

#### IATA

<b>14.1 UN/ID no.</b>	UN 3082
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	Limited Quantities: 5 L, 30 kg gross weight
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	A97, A158, A197

#### DOT

<b>UN/ID no.</b>	UN 3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (2-Phenoxyethyl acrylate)
<b>Hazard Class</b>	9
<b>Packing Group</b>	III



**Special Provisions** 8, 146, 173, 335, IB3, T4, TP1, TP29  
**Description** Note: Not regulated for ground transport

## Section 15: REGULATORY INFORMATION

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

#### France

##### Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
ETHYLENE GLYCOL DIMETHACRYLATE 97-90-5	RG 65	Viscous

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

##### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

##### Persistent Organic Pollutants

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

##### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

All ingredients are on the inventory or are exempt from listing.

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

##### US State Regulations

##### California Proposition 65

This product does not contain any Proposition 65 chemicals

### 15.2. Chemical safety assessment

Diluent

<b>Section 16: OTHER INFORMATION</b>
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**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H302 - Harmful if swallowed  
 H312 - Harmful in contact with skin  
 H332 - Harmful if inhaled  
 H314 - Causes severe skin burns and eye damage  
 H226 - Flammable liquid and vapor  
 H331 - Toxic if inhaled  
 H373 - May cause damage to organs through prolonged or repeated exposure if inhaled  
 H411 - Toxic to aquatic life with long lasting effects  
 H242 - Heating may cause a fire  
 H317 - May cause an allergic skin reaction

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

<b>Prepared By</b>	SDS coordinator
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<b>Issue Date</b>	30-Jun-2015
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<b>Revision Date</b>	07-Mar-2023
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<b>Revision Note</b>	Not applicable.
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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**