

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

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Version 1

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

**1.1. Product identifier**

**Product Code** MS-59681  
**Product Name** External Ammunition Sealant 59681

Contains ACRYLIC ACID, 2-PHENOXYETHYL ACRYLATE ESTER, ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE, 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

<b>Emergency Telephone - §45 - (EC)1272/2008</b>
<b>Europe</b> 112

**Section 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No 1272/2008**

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1B - (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, 2-PHENOXYETHYL ACRYLATE ESTER, ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE, ETHYLENE GLYCOL DIMETHACRYLATE

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation  
 H410 - Very toxic to aquatic life with long lasting effects

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P271 - Use only outdoors or in a well-ventilated area  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 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/physician  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P362 - Take off contaminated clothing and wash before reuse  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P273 - Avoid release to the environment  
 P391 - Collect spillage  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

No information available

**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	-	48145-04-6	30 - 60	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	No data available
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)	No data available
ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE	-	28961-43-5	7 - 13	Eye Irrit. 2A (H319) Skin Sens. 1B (H317)	No data available
ETHYLENE GLYCOL DIMETHACRYLATE	202-617-2	97-90-5	3 - 7	Skin Sens. 1 (H317) STOT SE 3 (H335)	No data available
ACRYLIC ACID	201-177-9	79-10-7	1 - 5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	No data available

				Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)	
PHOTOINITIATOR	423-340-5	162881-26-7	1 - 5	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available

**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

<b>Symptoms</b>	None known.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

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

**Unsuitable extinguishing media**  
No information available

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

No information available

**Hazardous combustion products** Irritating organic vapors.

### 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° and 82 °F.

#### Incompatible materials

Strong oxidizers. 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	-	-	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: 2 ppm P*	-	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> STEL: 15 ppm STEL: 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: 30 mg/m <sup>3</sup> STEL: 10 ppm STEL: 30 mg/m <sup>3</sup>	STEL: 29.5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 30 mg/m <sup>3</sup> STEL: 15 ppm STEL: 45 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup> STEL: 6 ppm STEL: 18 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

## 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 No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	Liquid	Odor	Mild
Appearance	No information available	Odor threshold	No information available
Color	Green		

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

### 9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

**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 oxidizers. 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**

**Inhalation** No data available.  
**Eye contact** No data available.  
**Skin contact** No data available.  
**Ingestion** No data available.

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

**ATEmix (oral)** 2,388.10 mg/kg  
**ATEmix (dermal)** 3,163.20 mg/kg

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ISOOCTYL ACRYLATE	> 5 g/kg ( Rat )		
ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE		> 13 g/kg ( Rabbit )	
ETHYLENE GLYCOL DIMETHACRYLATE	= 3300 mg/kg ( Rat )		
ACRYLIC ACID	= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat )	= 280 µL/kg ( Rabbit ) = 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** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ISOOCTYL ACRYLATE	-	0.67: 96 h Pimephales promelas mg/L LC50	0.4: 48 h Daphnia magna mg/L EC50
ACRYLIC ACID	0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.04: 72 h Desmodesmus subspicatus mg/L EC50	222: 96 h Brachydanio rerio mg/L LC50 semi-static	270: 24 h Daphnia magna mg/L LC50 Static 95: 48 h Daphnia magna mg/L EC50

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Chemical Name	Partition coefficient
ACRYLIC ACID	0.38 - 0.46

### 12.4. Mobility in soil

#### Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal.

## Section 14: TRANSPORT INFORMATION

### IMDG

UN/ID no.	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Hazard Class	9
Packing Group	III
EmS-No.	F-A, S-F
Special Provisions	274, 335, 969
Marine pollutant	Yes
Description	Limited Quantities: 5 L, 30 kg gross weight

### IATA

UN/ID no.	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Hazard Class	9
Packing Group	III
Special Provisions	A97, A158, A197
Description	Limited Quantities: 5 L, 30 kg gross weight

**DOT**

UN/ID no.	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2-Phenoxyethyl acrylate)
Hazard Class	9
Packing Group	III
Special Provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Marine pollutant	Yes
Description	Note: Not regulated for ground transport

<b>Section 15: REGULATORY INFORMATION</b>
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**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	-

**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**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	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**



No information available

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor  
 H242 - Heating may cause a fire  
 H302 - Harmful if swallowed  
 H312 - Harmful in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H331 - Toxic if inhaled  
 H332 - Harmful if inhaled  
 H335 - May cause respiratory irritation  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H411 - Toxic to aquatic life with long lasting effects  
 H413 - May cause long lasting harmful effects to aquatic life

#### 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

**Prepared By** SDS coordinator

**Issue Date** 30-Jun-2015

**Revision Date** 08-Mar-2023

**Revision Note** Not applicable.

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