

Issue Date 30-Jun-2015

Revision Date 22-Jan-2024

Version 2

1. IDENTIFICATION

Product identifier

Product Name Ammunition Sealant 59621

Other means of identification

Product Code MS-59621

UN/ID no. UN 3082

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use UV Anaerobic Adhesive.

Uses advised against None known

Details of the supplier of the safety data sheet

Manufacturer Address

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

Emergency telephone number

Company Phone Number 407-322-4000

Emergency Telephone Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

Label elements

Emergency Overview

Danger

Hazard statements

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

May cause respiratory irritation

**Appearance** No Information Available**Physical state** Liquid**Odor** Mild**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

May be harmful if swallowed Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
2-PHENOXYETHYL ACRYLATE ESTER	48145-04-6	30 - 60	*
ISOOCTYL ACRYLATE	29590-42-9	10 - 30	*
ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE	28961-43-5	7 - 13	*
ETHYLENE GLYCOL DIMETHACRYLATE	97-90-5	3 - 7	*
ACRYLIC ACID	79-10-7	1 - 5	*
PHOTOINITIATOR	162881-26-7	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

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

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media No Information Available.

Specific hazards arising from the chemical

No Information Available.

Hazardous combustion products Irritating organic vapors.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

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

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.

7. HANDLING AND STORAGE**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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACRYLIC ACID 79-10-7	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m ³ (vacated) S*	TWA: 2 ppm TWA: 6 mg/m ³

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing. Use rubber or plastic gloves.

Respiratory protection 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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Liquid	Odor	Mild
Appearance	No Information Available	Odor threshold	No Information Available
Color	Red		

<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 in other solvents	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

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

10. STABILITY AND REACTIVITY

Reactivity

Not Applicable

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

May occur upon inhibitor depletion.

Conditions to avoid

Incompatible materials.

Incompatible materials

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

Hazardous Decomposition Products

Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-PHENOXYETHYL ACRYLATE ESTER 48145-04-6	= 4660 µL/kg (Rat)	-	-
ISOOCTYL ACRYLATE 29590-42-9	> 5 g/kg (Rat)	-	-
ETHYLENE GLYCOL DIMETHACRYLATE 97-90-5	= 3300 mg/kg (Rat)	-	-
ACRYLIC ACID 79-10-7	= 193 mg/kg (Rat)	= 295 mg/kg (Rabbit)	= 11.1 mg/L (Rat) 1 h = 3.6 mg/L (Rat) 4 h
PHOTOINITIATOR 162881-26-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Information on toxicological effects

Symptoms No Information Available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information Available.

Germ cell mutagenicity No Information Available.

Carcinogenicity No Information Available.

Chemical Name	ACGIH	IARC	NTP	OSHA
ACRYLIC ACID 79-10-7	-	Group 3	-	-

Reproductive toxicity No Information Available.

STOT - single exposure No Information Available.

STOT - repeated exposure No Information Available.

Aspiration hazard No Information Available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 3,279.50 mg/kg

ATEmix (dermal) 16,872.20 mg/kg

ATEmix (inhalation-dust/mist) 32.395 mg/l

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ISOOCTYL ACRYLATE 29590-42-9	-	0.67: 96 h Pimephales promelas mg/L LC50	0.4: 48 h Daphnia magna mg/L EC50
ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE 28961-43-5	-	1.95: 96 h Danio rerio mg/L LC50 static	-
ETHYLENE GLYCOL DIMETHACRYLATE 97-90-5	-	15.95: 96 h Danio rerio mg/L LC50 static	-
ACRYLIC ACID 79-10-7	0.04: 72 h Desmodesmus 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 162881-26-7	-	90: 96 h Danio rerio µg/L LC50 semi-static	-

Persistence and degradability

No Information Available.

Bioaccumulation

No Information Available.

Chemical Name	Partition coefficient
ACRYLIC ACID 79-10-7	0.46

Other adverse effects No Information Available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACRYLIC ACID 79-10-7	-	-	-	U008

14. TRANSPORT INFORMATION

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
Description Note: Not regulated for ground transport

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

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
Special Provisions 274, 335, 969
Marine pollutant Yes
Description Limited Quantities: 5 L, 30 kg gross weight

15. REGULATORY INFORMATION

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 Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
2-PHENOXYETHYL ACRYLATE ESTER - 48145-04-6	1.0
ACRYLIC ACID - 79-10-7	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ACRYLIC ACID 79-10-7	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-PHENOXYETHYL ACRYLATE ESTER 48145-04-6	X	-	X
ACRYLIC ACID 79-10-7	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 2	Physical and Chemical Properties Not Applicable
<u>HMIS</u>	Health hazards 2	Flammability 1	Physical hazards 2	Personal protection B

Prepared By SDS coordinator

Issue Date 30-Jun-2015

Revision Date 22-Jan-2024

Revision Note

No Information Available

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