

SAFETY DATA SHEET

Issue Date 25-Mar-2015 Revision Date 19-Nov-2015 Version 1

1. IDENTIFICATION

Product identifier

Product Name External Ammunition Sealant 59621

Other means of identification

Product Code MS-59621
UN/ID no. None
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended UseUV 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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Category 4	

Label elements

Emergency Overview

Warning

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye damage

May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

May cause respiratory irritation



Appearance No information available

Physical state liquid

Odor mild

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

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 cause irritation to nose and throat.

May cause allergic skin reaction. May cause skin irritation.

Vapors may irritate eyes. Contact with eyes will cause irritation.

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
2-Phenoxyethyl Acrylate Ester	48145-04-6	50-90	*
2-Propenoic acid, isooctyl ester	29590-42-9	20-30	*
ETHOXYLATED TRIMETHYL PP MIACRYLOTE	28961-43-5	10-20	*
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester	97-90-5	5-10	*
Acrylic acid	79-10-7	1-5	*
Photoinitiator	1462881-26-7	1-5	*
Cumene hydroperoxide	80-15-9	0.1-1	*

^{*}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 Consult a physician if necessary. Do NOT induce vomiting, Call a POISON CENTER or

doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat 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

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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.

Environmental precautions

Environmental precautions 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 Remove all sources of ignition. 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 7 and 29 °C.

Incompatible materials Strong oxidizers. Strong reducing agents. Free radical initiators. Inert gases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

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

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

Appearance No information available Odor Mild

Color Red Odor threshold No information available

Property Values Remarks • Method

pH Does not apply

Melting point / freezing point No information available

Boiling point / boiling range > 148 °C / 300 °F Flash point > 93 °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 < 5 mm Hg @20 °F 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 (%) negligible

No information available **Density Bulk density** No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Incompatible materials.

Incompatible materials

Strong oxidizers. Strong reducing agents. Free radical initiators. Inert gases.

Hazardous Decomposition Products

Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation No data available.

Eye contact No data available.

Skin contact No data available.

No data available. Ingestion

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50
2-Phenoxyethyl Acrylate Ester = 4660 μL/kg (Rat)		= 2540 μL/kg (Rabbit)	-

48145-04-6			
2-Propenoic acid, isooctyl ester 29590-42-9	> 5 g/kg (Rat)	-	-
ETHOXYLATED TRIMETHYL PP MIACRYLOTE 28961-43-5	-	> 13 g/kg (Rabbit)	-
2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester 97-90-5	= 3300 mg/kg (Rat)	-	-
Acrylic acid 79-10-7	= 33500 μg/kg (Rat) = 193 mg/kg (Rat)	= 295 mg/kg (Rabbit)= 280 μL/kg (Rabbit)	= 11.1 mg/L (Rat) 1 h = 3.6 mg/L (Rat) 4 h
Cumene hydroperoxide 80-15-9	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

 Chemical Name
 ACGIH
 IARC
 NTP
 OSHA

 Acrylic acid
 Group 3

 79-10-7

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
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) 3,619.00 mg/kg
ATEmix (dermal) 4,061.00 mg/kg
ATEmix (inhalation-dust/mist) 21.40 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Propenoic acid, isooctyl ester	2-Propenoic acid, isooctyl ester -		0.4: 48 h Daphnia magna mg/L
29590-42-9	29590-42-9		EC50
Acrylic acid 0.17: 96 h Pseudokirchneriella		222: 96 h Brachydanio rerio mg/L	270: 24 h Daphnia magna mg/L
79-10-7 subcapitata mg/L EC50 0.04: 72 h		LC50 semi-static	LC50 Static 95: 48 h Daphnia
	Desmodesmus subspicatus mg/L		magna mg/L EC50
EC50			
Cumene hydroperoxide -		3.9: 96 h Oncorhynchus mykiss	7: 24 h Daphnia magna mg/L EC50
80-15-9		mg/L LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Acrylic acid	0.38 - 0.46
79-10-7	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal 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
Cumene hydroperoxide 80-15-9	-	-	-	U096

Chemical Name	California Hazardous Waste Status	
Cumene hydroperoxide	Toxic	
80-15-9	Ignitable	

14. TRANSPORT INFORMATION

DOT Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

IATA Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

<u>IMDG</u> Not regulated

UN/ID no. None

Proper shipping name Not regulated Hazard Class None

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

RID Not regulated

UN/ID no. None

Proper shipping name Not regulated Hazard Class None

Packing Group None
Special Provisions None

ADR Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS 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
Cumene hydroperoxide - 80-15-9	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)

<u>CERCLA</u>

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	5000 lb	-	RQ 5000 lb final RQ
79-10-7			RQ 2270 kg final RQ
Cumene hydroperoxide	10 lb	-	RQ 10 lb final RQ
80-15-9			RQ 4.54 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
Cumene hydroperoxide 80-15-9	Х	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

Health hazards 2 Flammability 1 Physical hazards 1 Personal protection X

Prepared By SDS coordinator Issue Date 25-Mar-2015 Revision Date 19-Nov-2015

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