

SAFETY DATA SHEET

Issue Date 25-Mar-2015 Revision Date 21-Dec-2015 Version 1

1. IDENTIFICATION

Product identifier

Product Name Blank Ammunition Sealant 48641HV

Other means of identification

Product Code MS-48641HV

UN/ID no. None **Synonyms** None

Recommended use of the chemical and restrictions on use

Recommended Use Adhesives. 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

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed

Harmful in contact with skin

Causes severe skin burns and eye damage

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

Harmful if inhaled

Very toxic to aquatic life

Flammable liquid and vapor



Appearance No information available

Physical state liquid

Odor Sharp

Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

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

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

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Acrylated Oligomer	PROPRIETARY	40-60	*
ISOBORNYL ACRYLATE	5888-33-5	30-50	*
HYDROXYETHYL METHACRYLATE	868-77-9	10-20	*
ACRYLIC ACID	79-10-7	1-5	*
Photoinitiator	1462881-26-7	1-3	*
Hydrophobic Amorphous Fumed Silic	67762-90-7	0.5-2	*

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

4. FIRST AID MEASURES

Description of first aid measures

MS-48641HV - Blank Ammunition Sealant 48641HV

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

Revision Date 21-Dec-2015

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 No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Dry chemical.

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

confined areas.

Environmental precautions

Environmental precautionsDo not allow into any sewer, on the ground or into any body of water. Contain and collect

spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see

Section 13). See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

MS-48641HV - Blank Ammunition Sealant 48641HV

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.

Revision Date 21-Dec-2015

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep at a temperature not exceeding 110°F.

Incompatible materials Strong oxidizers. Peroxides. Copper and alloys. Carbon steel, Iron. Rust. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

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

AppearanceNo information availableOdorSharp

Color purple Odor threshold No information available

<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 °C / > 200 °F **Evaporation rate** No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:8.0% Acrylic AcidLower flammability limit:2.0% Acrylic AcidVapor pressure< 5mm Hg @80C</th>Vapor densityNo information available

Relative density 1.01 Water solubility Low

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 pointNo information availableMolecular weightNo information available

VOC Content (%) 2.9%; 29.2 g/L

DensityNo information availableBulk densityNo 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. Peroxides. Copper and alloys. Carbon steel, Iron. Rust. Strong bases.

Hazardous Decomposition Products

Carbon oxides. Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May be harmful if inhaled.

Eye contact Irritating to eyes.

Skin contact Irritating to skin.

Ingestion May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ISOBORNYL ACRYLATE	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
5888-33-5			
HYDROXYETHYL	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
METHACRYLATE			
868-77-9			

ACRYLIC ACID	= 33500 µg/kg (Rat) = 193 mg/kg	= 295 mg/kg (Rabbit)= 280 μL/kg	= 11.1 mg/L (Rat) 1 h = 3.6 mg/L
79-10-7	(Rat)	(Rabbit)	(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

Sensitization Irritant

Germ cell mutagenicityNo information available.
Carcinogenicity
No information available.

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

Reproductive toxicity No information available.

STOT - single exposure Irritant
STOT - repeated exposure Kidney. Liver

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) 2,670.00 mg/kg ATEmix (dermal) 3,444.00 mg/kg ATEmix (inhalation-dust/mist) 15.74 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
HYDROXYETHYL	-	213 - 242: 96 h Pimephales	-
METHACRYLATE		promelas mg/L LC50 flow-through	
868-77-9		227: 96 h Pimephales promelas	
		mg/L LC50	
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		

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
HYDROXYETHYL METHACRYLATE	0.47
868-77-9	
ACRYLIC ACID	0.38 - 0.46
79-10-7	

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	-	-	-	U008
79-10-7				

14. TRANSPORT INFORMATION

DOT Not regulated

UN/ID no. None

Proper shipping name Not regulated **Hazard Class** None **Packing Group** None **Special Provisions** None

IATA Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard Class None **Packing Group** None **Special Provisions** None

IMDG Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard Class None **Packing Group** None **Special Provisions** None

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 Class None **Packing Group** None **Special Provisions** None

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 %
ACRYLIC ACID - 79-10-7	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
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	5000 lb	-	RQ 5000 lb final RQ
79-10-7			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm. ACRYLIC ACID

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACRYLIC ACID	X	X	Χ
79-10-7			

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 -

HMIS Health hazards 2* Flammability 1 Physical hazards 1 Personal protection X

Prepared By SDS coordinator

Issue Date 25-Mar-2015 **Revision Date** 21-Dec-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