

Issue Date 02-Feb-2017

Revision Date 19-Apr-2021

Version 1

1. IDENTIFICATION**Product identifier****Product Name** Ammunition Sealant 76101**Other means of identification****Product Code** MS-76101**UN/ID no.** None**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** Ammunition Sealant.**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 1A |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Label elements**Emergency Overview****Danger****Hazard statements**Harmful if inhaled
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure

**Appearance** No information available**Physical state** Liquid**Odor** Mild**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Get medical advice/attention if you feel unwell
 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
 Call a POISON CENTER or doctor/physician if you feel unwell

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
 May be harmful in contact with skin
 Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|-------------------------------|-------------|----------|--------------|
| DIPROPYLENE GLYCOL DIACRYLATE | 57472-68-1 | 60 - 100 | * |
| PHOTOINITIATOR | 162881-26-7 | 1 - 5 | * |
| ACRYLIC ACID | 79-10-7 | 1 - 5 | * |
| CUMENE HYDROPEROXIDE | 80-15-9 | 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**

Carbon dioxide (CO2). Foam. Dry chemical.

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**

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|----------------------|---|
| Personal precautions | Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. |
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|--------------------------|---|
| For emergency responders | Use personal protection recommended in Section 8. |
|--------------------------|---|

Environmental precautions

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|---------------------------|---|
| 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

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

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|-------------------------|---|
| 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 oxidizing agents. Strong reducing agents. Free radical initiators. Inert gases. Peroxides. |

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. Wear protective nitrile rubber 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 | > 94 °C / 201 °F | |
| Flash point | > 94 °C / 201 °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 | 1.05 | |
| Water solubility | Negligible | |

| | |
|-------------------------------------|--------------------------|
| 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**

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 oxidizing agents. Strong reducing agents. Free radical initiators. Inert gases. Peroxides.

Hazardous Decomposition Products

Irritating organic vapors.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|---------------------|--------------------|
| Inhalation | No data available. |
| Eye contact | No data available. |
| Skin contact | No data available. |
| Ingestion | No data available. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--|--|---|
| DIPROPYLENE GLYCOL DIACRYLATE 57472-68-1 | = 4600 mg/kg (Rat) | > 2 g/kg (Rabbit) | - |
| PHOTOINITIATOR 162881-26-7 | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| ACRYLIC ACID 79-10-7 | = 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 |
| 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

Sensitization No information available.
Germ cell mutagenicity No information available.

Carcinogenicity

| 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) 3,708.00 mg/kg
ATEmix (dermal) 2,025.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---------------------------------|---|---|---|
| ACRYLIC ACID 79-10-7 | 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 | 95: 48 h Daphnia magna mg/L EC50 270: 24 h Daphnia magna mg/L LC50 Static |
| CUMENE HYDROPEROXIDE 80-15-9 | - | 3.9: 96 h Oncorhynchus mykiss mg/L LC50 static | 7: 24 h Daphnia magna mg/L EC50 |
| INSOLUBLE SACCHARIN 81-07-2 | - | 18300: 96 h Pimephales promelas mg/L LC50 | - |

Persistence and degradability

No information available.

Bioaccumulation

| Chemical Name | Partition coefficient |
|-------------------------|-----------------------|
| ACRYLIC ACID 79-10-7 | 0.38 - 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 |
| CUMENE | - | - | - | U096 |

| | | | | |
|--------------------------|--|--|--|--|
| HYDROPEROXIDE 80-15-9 | | | | |
|--------------------------|--|--|--|--|

| Chemical Name | California Hazardous Waste Status |
|---------------------------------|-----------------------------------|
| CUMENE HYDROPEROXIDE 80-15-9 | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT
 UN/ID no. Not regulated
 Proper shipping name Not regulated
 Hazard Class None
 Packing Group None
 Special Provisions None

IATA
 UN/ID no. Not regulated
 Proper shipping name Not regulated
 Hazard Class None
 Packing Group None
 Special Provisions None

IMDG
 UN/ID no. Not regulated
 Proper shipping name Not regulated
 Hazard Class None
 Packing Group None
 Special Provisions None

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
 DSL/NDL 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/NDL - 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 |
| CUMENE HYDROPEROXIDE - 80-15-9 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|---|
| Acute health hazard | - |
| Chronic Health Hazard | - |
| Fire hazard | - |
| Sudden release of pressure hazard | - |
| Reactive Hazard | - |

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 |
| CUMENE HYDROPEROXIDE 80-15-9 | 10 lb | - | RQ 10 lb final RQ 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 |
|---------------------------------|------------|---------------|--------------|
| ACRYLIC ACID 79-10-7 | X | X | X |
| CUMENE HYDROPEROXIDE 80-15-9 | 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

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| NFPA | Health hazards - | Flammability - | Instability - | Physical and Chemical Properties - |
| HMIS | Health hazards - | Flammability - | Physical hazards - | Personal protection - |

| | |
|---------------|--------------------------|
| Prepared By | SDS coordinator |
| Issue Date | 02-Feb-2017 |
| Revision Date | 19-Apr-2021 |
| 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