



SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Standard JIS Z 7250:2000, and EU REACH Regulations

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CARTRIDGES – SHOTSHELL 8 GAUGE INDUSTRIAL**
CAS Number: Mixture – Metal Alloy and other materials
Synonyms: Slug Loads: 3 oz.(85 g) lead (CE8S, CE8SPW, CE8RVPW, CE8LVPW); 3 oz.(85 g) zinc (CE8Z, CE8ZPW, CE8ZRPW); 2-7/8 oz.(82 g) zinc (CE8ZLVPW); 2 oz.(56 g) zinc (CE82Z, CE82ZPW); 2 oz.(56 g) steel (CE8FEPW); 1-5/8 oz.(46 g) iron (CE8FRPW).
Shot Loads: 00-Buckshot 20 pellet 2-1/4 oz.(64 g) lead (CE8B2P); 00-Buckshot 24 pellet 2-3/4 oz.(78 g) lead (CE8B2LVP); #2 chilled shot 3 oz.(85 g) lead (CE8LV2P, CE8HV2P); #4 chilled shot 3 oz.(85 g) lead (CE8LV4P, CE8HV4P); 8 pellet 1-1/8 oz.(32 g) zinc shot (CE8B2ZP).
Product Use: Assembly of Shotshell 8 Gauge Industrial Load Components
U.N. Number: UN 0012
U.N. Dangerous Goods Class Explosive, 1.4S
Manufacturer/Responsible Party: Olin Winchester, LLC
Manufacturers' Address: 600 Powder Mill Road, East Alton, IL 62024 www.winchester.com
Emergency Telephone Number: US/Canada: 1-800-424-9300
Outside US/Canada: 703-527-3887
SDS Control Group: 618-258-3507 (Technical Information Only)

Olin SDS No.: 00073.001

Issue Date: 6/1/15

Revision Date: 02/28/2019

Revision No.: 5

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS

Class 6 Explosive

GHS HAZARD SYMBOLS

**GHS Classifications:**

Carcinogenicity Category 1A
 Reproductive Toxicity Category 1A
 Explosive Division 1.4
 STOT RE Category 1
 Aquatic Environment, Chronic II

Signal Word:

Danger

Hazard Statements :

H204: Fire or projection hazard
 H350: May cause cancer
 H360: May damage fertility or the unborn child
 H362: May cause harm to breast-fed children

H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged or repeated exposure
 H411: Toxic to aquatic life with long lasting effects

Target organs:

Nervous, renal and hematopoietic systems

Precautionary Statements:

P102: Keep out of reach of children
 P210: Keep away from heat/sparks/open flame/hot surfaces
 P250: Do not subject to shock/friction
 P260: Do not breathe dust/fume/gas/mist/vapors/spray
 P264: Wash hands thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P271: Use only outdoors or in a well-ventilated area
 P273: Avoid release to the environment
 P280: Wear protective gloves/protective clothing/eye protection/face protection

GHS Pictograms:

Explosive; Pictogram: exploding bomb
 Specific Target Organ Toxicity; Pictogram Code: GHS08
 Environment; Pictogram Code: GHS09

EU Classifications:

| | |
|----------------|---|
| Hazard Symbols | E, T, N |
| Risk Phrases | R2: Risk of explosion by shock, friction, fire or other sources of ignition R45 (Category 1): May cause cancer R48: Danger of serious damage to health by prolonged exposure R60/61 (Category 1): May impair fertility or cause harm to the unborn child R63: Possible risk of harm to the unborn child R64: May cause harm to breast-fed children R51/53: Toxic to aquatic organisms and many cause long-term adverse effects in the aquatic environment |
| Safety Phrases | S2: Keep out of reach of children S15: Keep away from heat S20/21: When using do not eat, drink or smoke S22: Do not breathe dust S39: Wear eye/face protection S51: Use only in well-ventilated areas S61: Avoid release to the environment |

Health Hazards or Risks From Exposure

This product is composed of a finished metal alloy cartridge which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the cartridge is fired, a small amount of particles may be generated which may be slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of these harmful substances:

Lead: Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function. Occupational exposure to lead is associated with lung and stomach cancer. Lead is classified as a probable human carcinogen.

Arsenic: Epidemiological studies in humans have shown an association between increased incidences of lung and skin cancer and prolonged exposures to high concentrations of arsenic. Arsenic is classified as a known human carcinogen.

Copper: Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.

It is unlikely that the amount of particles that someone would be exposed to from firing a loaded round would be sufficient to cause any of these effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This MSDS covers a number of different products consisting of the following components:

- A) Load – can be Lead, Zinc, or Steel Slug
- B) Primed Shell Case
- C) Wad
- D) Propellant

| Components | % By Weight | CAS Number | EINECS/ ELINCS # |
|---------------------------------|-------------|------------|------------------|
| If The Load Is Lead Slug | | | |
| Lead | 65 - 75 | 7439-92-1 | 231-100-4 |
| Antimony | 0.1 – 4.5 | 7440-36-0 | 231-146-5 |
| Arsenic | 0.1 – 1.1 | 7440-38-2 | 231-148-6 |
| If The Load Is Zinc Slug | | | |
| Zinc | 65 -75 | 7440-66-6 | 231-175-3 |
| If The Load is Steel Slug | | | |
| Iron | 65 – 75 | 7439-89-6 | 231-096-4 |
| Ingredients in Other Components | | | |
| Copper | 5 – 12 | 7440-50-8 | 231-159-6 |
| Iron | 0.5 - 2.5 | 7439-89-6 | 231-096-4 |
| Zinc | 1 - 6 | 7440-66-6 | 231-175-3 |
| Nitrocellulose | 1 - 5 | 9004-70-0 | Polymer |
| Lead Styphnate | 0.1 - 1 | 15245-44-0 | 239-290-0 |
| Wad (non-hazardous) | 1 - 5 | Mixture | Not applicable |

4. FIRST AID MEASURES

- Eye Contact: Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician at once.
- Skin Contact: Wash skin with plenty of soap and water.
- Inhalation: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.
- Ingestion: If ingested, immediately call a physician.

Medical Conditions Aggravated By Exposure:

There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead can aggravate anemia, cardiovascular and respiratory disease.

Recommendations To Physicians:

Remove from exposure, if possible, and treat symptoms

5. FIRE FIGHTING MEASURES

| <i>PROPERTY</i> | <i>VALUE</i> | <i>PROPERTY</i> | <i>VALUE</i> |
|------------------------|----------------|--|----------------|
| Explosive | Yes | Flammable | Not applicable |
| Combustible | Not applicable | Pyrophoric | No |
| Flash Point (°C): | Not applicable | Burning Rate of Material: | Not applicable |
| Lower Explosive Limit: | Not applicable | Autoignition Temp.: | No data |
| Upper Explosive Limit: | Not applicable | Flammability Classification: (defined by 29 CFR 1910.1200) | Explosive |

Unusal Fire and Explosion Hazards:

Extinguishing Media:

Special Firefighting Procedures:

Possible projection hazard.

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.

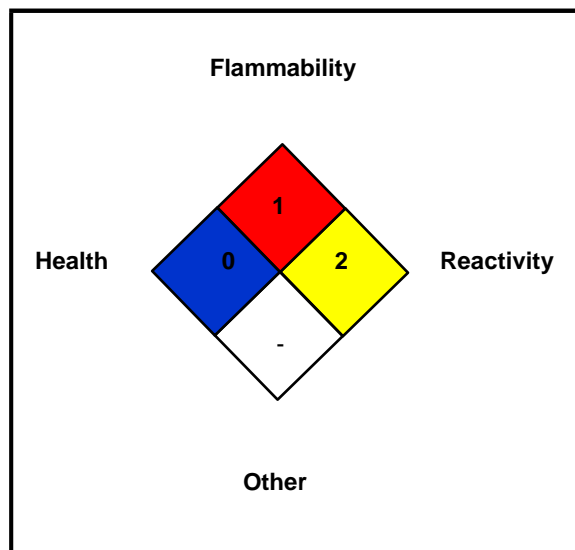
Do not fight fire when fire reaches cargo. Cargo may explode.

Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will only provide limited protection.


Isolate materials not yet involved in the fire. Move containers from fire area if possible; otherwise, cool with carefully applied water spray.

Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

| | | | |
|---|----------|-------------|------------|
| HEALTH HAZARD (BLUE) | | 0* | |
| FLAMMABILITY HAZARD (RED) | | 1 | |
| PHYSICAL HAZARD (YELLOW) | | 2 | |
| PROTECTIVE EQUIPMENT | | | |
| EYES | PPE CODE | RESPIRATORY | HEARING |
|  | A | See Sect 8 | See Sect 8 |

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

6. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Spill Response:

A spill of this material will normally not require emergency response team capabilities. If, however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures:

Spills of this material should be handled carefully. Do not subject materials to mechanical shock. Collect material and place in a designated, labeled waste container. See Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored.

Conditions for Safe Storage:

Store in accordance with local regulations. Store in original containers in a cool, dry location away from Acids, Class A & B explosives, strong oxidizers, and caustics. Avoid mechanical impact or shock and electrical discharge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

| CAS # | CHEMICAL NAME | ACGIH TLV | OSHA PEL | INTERNATIONAL OELS |
|-----------|----------------|---|---|--|
| 7440-50-8 | Copper | 0.2 mg/m ³ (fume), 1 mg/m ³ (dusts and mists) | 0.1 mg/m ³ (fume) 1 mg/m ³ (dusts and mists) | Austria, Belgium, Canada: 0.2 mg/m ³ (fumes), 1 mg/m ³ (dusts) Denmark: 1.0 mg/m ³ (dust and powder) Germany (MAK): 0.1 mg/m ³ (fume), 1 mg/m ³ (dusts and mists) |
| 7439-92-1 | Lead | 0.05 mg/m ³ | 0.05 mg/m ³ | Austria, Denmark, Germany, Sweden, Switzerland: 0.1 mg/m ³ Norway, Poland: 0.05 mg/m ³ |
| 7440-66-6 | Zinc | None established | None established | None established |
| 9004-70-0 | Nitrocellulose | None established | None established | None established |
| 7440-36-0 | Antimony | 0.5 mg/m ³ | 0.5 mg/m ³ | Austria, Belgium, Denmark, France, Finland, Germany, Hungary, Netherlands, Norway, Poland, Sweden, UK: 0.5 mg/m ³ |

| | | | | |
|-----------|----------------|------------------------|------------------------|--|
| 7439-89-6 | Iron | None established | None established | None established |
| 7440-38-8 | Arsenic | 0.01 mg/m ³ | 0.01 mg/m ³ | Germany, MAK – 1 mg/m ³ Austria, Belgium, Finland, Japan, Holland, Czechoslovakia, Hungary and Poland - 0.5 mg/m ³ Italy – 0.25 mg/m ³ Switzerland, Canada (Alberta & others) – 0.2 mg/m ³ Sweden – 0.05 mg/m ³ Canada (B.C.), Denmark = 0.01 mg/m ³ , K1 |
| 55-63-0 | Lead Styphnate | None established | None established | None established |

| | |
|--------------------------------|--|
| <u>Engineering Controls:</u> | Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation. Use explosion-proof ventilation. |
| <u>Respiratory Protection:</u> | Not normally needed. Maintain airborne contaminant concentrations below guidelines listed above. Use an appropriate approved air-purifying respirator equipped with HEPA cartridges/canisters where there is the potential for exceeding established occupational exposure limits. |
| <u>Eye/Face Protection:</u> | Use safety glasses. |
| <u>Hand Protection:</u> | Not normally needed |
| <u>Skin Protection:</u> | Not normally needed. |
| <u>Hearing Protection:</u> | Not normally needed. During firing use hearing protection. |
| <u>General Hygiene:</u> | Do not eat, drink, or smoke while using this product. Wash hands thoroughly after use. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| PROPERTY | VALUE | PROPERTY | VALUE |
|--------------------------------------|---|---|----------------|
| <i>Appearance:</i> | Cylindrical plastic cartridge with metal base | <i>Physical State:</i> | Solid |
| <i>Odor:</i> | None | <i>Odor Threshold:</i> | None |
| <i>Boiling Point (°F):</i> | Not applicable | <i>Melting point:</i> | Not applicable |
| <i>Vapor Pressure (mm Hg):</i> | Not applicable | <i>Freezing point:</i> | Not applicable |
| <i>Vapor Density (air = 1):</i> | Not applicable | <i>Bulk Density:</i> | Not applicable |
| <i>Specific gravity (g/cc):</i> | Not applicable | <i>Viscosity (cps):</i> | Not applicable |
| <i>pH:</i> | Not applicable | <i>Decomposition Temperature:</i> | Not applicable |
| <i>Solubility in Water (20 °C):</i> | Insoluble | <i>Evaporation Rate:</i> | Not applicable |
| <i>Volatiles, Percent by volume:</i> | Not applicable | <i>Octanol/water partition coefficient:</i> | Not applicable |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| <u>Stability:</u> | Stable under normal temperatures and pressure. |
| <u>Possibility of Hazardous Reactions:</u> | Hazardous polymerization will not occur |
| <u>Incompatible Materials:</u> | Acids, Class A & B explosives, strong oxidizers, and caustics |
| <u>Hazardous Decomposition Products:</u> | Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead dust/fume |
| <u>Conditions to Avoid:</u> | Contact with incompatible materials. Physical damage to containers; cartridges may detonate if case is punctured. |

11. TOXICOLOGICAL INFORMATION

Potential Routes of Entry: Inhalation, Skin, and by Ingestion.

The physical nature of this product makes absorption from any route unlikely. A small amount of inhalable particles may be created when cartridge is fired.

Effects Of Acute Exposure:

| PRODUCT | | SELECTED COMPONENTS | | | | | | | |
|-------------------------------|--|---------------------|-----------------|------------------------|----------------|--------------|----------------|---------------|--------------|
| | | Lead | Arsenic | Copper | Nitrocellulose | Antimony | Lead styphnate | Iron | Zinc |
| Inhalation LC ₅₀ | Particles generated from firing may be slightly toxic | No data | No data | No data | No data | No data | No data | No data | No data |
| Skin Contact LD ₅₀ | Skin absorption unlikely | No data | No data | 375 mg/kg, sc (rabbit) | No data | No data | No data | No data | No data |
| Ingestion LD ₅₀ | Ingestion unlikely | No data | 763 mg/kg (rat) | 3.5 mg/kg, ip (mouse) | >5 g/kg (rat) | 7 g/kg (rat) | No data | 30 g/kg (rat) | No data |
| Irritation | Particles generated from firing may be slightly irritating to the eyes | Not irritating | No data | Respiratory irritant | No data | No data | No data | Eye irritant | Eye irritant |
| Sensitization | Sensitization to this Product has not been reported | No data | No data | No data | No data | No data | No data | No data | No data |

Other Adverse Effects:Target Organ Toxicity:

No reported target organ toxicity from this product. Lead has caused nervous system, kidney and hematopoietic system damage in humans and laboratory animals.

Reproductive Toxicity:

This product is not known or reported to cause reproductive effects. Lead has been shown to reduce male reproductive function in humans and laboratory animals.

Teratogenicity (Birth Defects):

This product is not known or reported to cause developmental toxicity. Lead has been shown to affect fetal development; changes including birth defects have been reported.

Mutagenicity:

This product is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several *in vitro* assays.

Carcinogenicity:

IARC and US EPA list lead and lead compounds as probable human carcinogens (Group 2A) based on sufficient evidence from animal studies and limited evidence from human studies (epidemiology). NTP classifies lead and lead compounds as reasonably anticipated to be human carcinogens.

12. ECOLOGICAL INFORMATIONEnvironmental Effects:

PRODUCT: Product has not been tested for environmental properties. Lead shot has been shown to be toxic to aquatic species.

COMPONENTS:

Arsenic:

Daphnia magna, 48 hr. LC₅₀ = 3.8 mg/L; Fathead minnow, 96 hr LC₅₀ = 9.9 mg/L

Copper:

Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as toxic, particularly in soft water to many kinds of fish, crustacea, mollusks, insects, and plankton.

Lead:

Bluegill sunfish, 48 hr. LC₅₀ = 2-5 mg/l. Lead is toxic to waterfowl.

Nitrocellulose:

LC₅₀ > 1000 mg/l to fish, invertebrates, and algae.

Zinc: The following concentrations of zinc have been reported as lethal to fish: 0.13 mg/l, for 12 – 24 hours to Rainbow trout fingerlings; 1.9 – 3.6 mg/l, 6 hr TLM (soft water, 30°C) to Bluegill Sunfish; 4 mg/l, 3 days (hard water) to Rainbow trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.
The presence of copper appears to have a synergistic effect on the toxicity of zinc towards fish.

Environmental Fate:

MOBILITY: Dissolved lead from degraded slugs may migrate through soil.
PERSISTANCE/DEGRADABILITY: Not biodegradable. Slugs may fragment and decompose in soil leading to accumulation of lead.
BIOACCUMULATION: No data

13. DISPOSAL CONSIDERATIONS

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

14. TRANSPORT INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

Proper Shipping Name: Cartridges, small arms (other than blanks)
Hazard Class Number and Description: Explosive 1.4S
UN Identification Number: UN 0012
Packing Group: PGII
DOT Label(s) Required: Explosive 1.4
Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

Additional Information:

North American Emergency Response Guidebook Number (2004): 114

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as dangerous goods under 49 CFR 172.101. Note: May be reclassified domestically as an ORM-D if packaged as a consumer commodity per 49 CFR 173.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is classified as Dangerous Goods.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is classified as Dangerous Goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATIONUS FEDERAL

| | | | | | |
|--------------------|---|----------------------------|-----------------|------------------------|--------------------------------|
| TSCA | The components of this product are listed on the Toxic Substance Control Act inventory. | | | | |
| CERCLA: | Antimony, R.Q. = 5000 lbs.; Copper, R.Q.* = 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Lead, R.Q. = 10 lbs.; Arsenic, R.Q. = 1 lb. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches)). | | | | |
| SARA 313: | Copper, Lead and Lead compounds, Zinc (fume or dust), Antimony, Arsenic | | | | |
| SARA 311/312: | <i>Health:</i> | Acute – No Chronic - No | <i>Fire:</i> No | <i>Reactivity:</i> Yes | <i>Release of Pressure:</i> No |
| SARA 302 EHS List: | None of the components of this product are listed. | | | | |

*RQ = Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

| Component | California | New Jersey | Pennsylvania | Massachusetts | Michigan |
|----------------|------------|------------|--------------|---------------|------------|
| Copper | Not listed | X | X | X | X |
| Lead | X | X | X | X | X |
| Zinc | Not listed | X | Not listed | X | X |
| Nitrocellulose | Not listed | X | X | X | Not listed |
| Iron | Not listed | Not listed | Not listed | Not listed | Not listed |
| Antimony | Not listed | X | X | X | X |
| Arsenic | X | X | X | X | X |
| Lead styphnate | X | Not listed | Not listed | X | Not listed |

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains detectable amounts of a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm.

GHS CLASSIFICATION

Carcinogenicity Category 1A
 Reproductive Toxicity Category 1A
 Explosive Division 1.4
 STOT RE Category 1
 Aquatic Environment, Chronic II

EUROPEAN REGULATIONS

All chemical components listed on EINECS except nitrocellulose (considered a polymer)

Lead metal is included on the REACH Candidate List of Substances of Very High Concern for Authorisation (Toxic to Reproduction, Category 1A; Article 57c)

Restrictions on use: this substance is subject to REACH restrictions according to:

- Annex XVII, Entry No. 30 (regarding supply to the general public)
- REACH Annex XVII, Entry No. 63.

Hazard Classification

Danger Symbols: E, T, N
 Risk Phrases: R2, R48, R60, R63, R51/53
 Safety Phrases: S2, S15, S20/21, S22, S39, S51, S61

German WGK Classification: Not known.

CANADIAN REGULATIONS

DSL/NDSL Inventory: The components of this product are on the DSL

IDL: Antimony, Arsenic, Copper, Lead

CEPA PRIORITIES LIST: None

WHMIS: This product is not subject to WHMIS. It is regulated as a Class 6 Explosive in Canada.

JAPANESE REGULATIONS

Existing National Inventory of Chemical Substances (ENCS): The components of this product are Listed

Japanese Priority Assessment Chemical Substances: None of the components of this product s are listed

OTHER INTERNATIONAL CHEMICAL INVENTORIES

Swiss Giftliste List of Toxic Substances: All Components Listed

Australian Inventory (AICS): All Components Listed

16. OTHER INFORMATION

REVISIONS: 05

DATE: 02/28/2019

PREPARED BY: Olin Winchester, LLC

OTHER: Additional information available from: www.winchester.com

NOTICE: THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.