



# 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:** **PROPELLANT – BALL POWDER®**  
**CAS Number:** Mixture  
**Synonyms:** Smokeless Powder, Double Base Propellant  
**Product Use:** Propellant Explosive, Solid  
**U.N. Number:** UN 0161  
**U.N. Dangerous Goods Class:** Explosive, 1.3C  
**Manufacturer/Responsible Party:** Olin Winchester, LLC  
**Manufacturers' Address:** 600 Powder Mill Road, East Alton, IL 62024 [www.winchester.com](http://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.: 00064.0001

Issue Date: 1/23/15

Revision Date: 02/28/2019

Revision No.: 5

## 2. HAZARDS IDENTIFICATION

### DANGER!

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT OR SPARKS. DO NOT SUBJECT TO MECHANICAL SHOCK OR FRICTION. GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. TOXIC BY INHALATION, SKIN ABSORPTION OR INGESTION. AVOID BREATHING DUST OR FUME. USE IN A WELL VENTILATED AREA. IRRITATING TO THE EYES, SKIN AND RESPIRATORY TRACT. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. PRODUCT MAY CAUSE AN ALLERGIC SKIN REACTION. WEAR PROTECTIVE GLOVES/CLOTHING/EYE AND FACE PROTECTION. WASH HANDS AFTER HANDLING. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. ONE COMPONENT OF THIS PRODUCT IS SUSPECTED OF CAUSING CANCER. ONE COMPONENT OF THIS PRODUCT IS SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. OBTAIN SPECIAL INSTRUCTION BEFORE USE. DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. AVOID RELEASE TO THE ENVIRONMENT. COLLECT SPILLAGE. DISPOSE OF UNUSED PRODUCT AND CONTAINER PROPERLY.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS

Class 6 Explosive

GHS HAZARD SYMBOLS



**GHS Classifications:**

Explosive Division 1.1  
Acute Toxicity Category 3  
Skin Irritation Category 2  
Eye Irritation Category 2  
STOT-SE, Respiratory Irritation Category 3  
Skin Sensitization Category 1  
Carcinogen Category 2  
Reproductive Toxicity Category 2  
Aquatic Environment, Chronic II

**Signal Word:**

Danger

**Hazard Statements :**

H201: Explosive; mass explosion hazard  
 H301: Toxic if swallowed  
 H311: Toxic in contact with skin  
 H331: Toxic if inhaled  
 H315: Causes skin irritation  
 H319: Causes serious eye irritation  
 H335: May cause respiratory irritation  
 H317: May cause an allergic skin reaction  
 H351: Suspected of causing cancer  
 H361: Suspected of damaging fertility or the unborn child  
 H411: Toxic to aquatic life with long lasting effects

**Target organs:**

Blood, Liver, Kidney, Fetus and Urinary Bladder

**Precautionary Statements:**

P102: Keep out of reach of children  
 P201: Obtain special instructions before use  
 P202: Do not handle until all safety precautions have been read and understood  
 P210: Keep away from heat/sparks/open flame/hot surfaces  
 P240: Ground/bond container and receiving equipment  
 P250: Do not subject to shock/friction  
 P261: Avoid breathing dust/fume  
 P262: Do not get in eyes, on skin, or on clothing  
 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  
 P272: Contaminated work clothing should not be allowed out of the workplace  
 P273: Avoid release to the environment  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P391: Collect spillage  
 P501: Dispose of contents/container properly

**GHS Pictograms:**

Explosive: pictogram, exploding bomb  
 Acute Toxicity: pictogram, skull and crossbones  
 Skin Sensitization: pictogram, exclamation mark, GHS07  
 Specific Target Organ Toxicity: pictogram code, GHS08  
 Aquatic Environment: pictogram code, GHS09

**EU Classifications:**

Hazard Symbols

E, T, Xi, N

Risk Phrases

R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition  
 R23/24/25: Toxic by inhalation, in contact with skin, and if swallowed  
 R36/37/38: Eye, skin and respiratory tract irritation  
 R40: Limited evidence of a carcinogenic effect  
 R43: May cause sensitization by skin contact  
 R62/63: Possible risk of impaired fertility or harm to the unborn child  
 R51/53: Toxic to aquatic organisms and many cause long-term adverse effects in the aquatic environment

Safety Phrases

S15/16: Keep away from heat/ keep away from sources of ignition – no smoking  
 S20/21: When using do not eat, drink or smoke  
 S22/24/25: Do not breathe dust/avoid contact with skin and eyes  
 S36/37/39: Wear protective clothing/suitable gloves/and eye/face protection  
 S45: In case of accident or if you feel unwell seek medical advice immediately  
 S61: Avoid release to the environment

### Health Hazards or Risks From Exposure

This product is composed of twelve different chemical components. Acute effects of exposure can include eye irritation with redness, swelling, and pain. Repeated eye exposure may cause conjunctivitis. Contact with skin may cause irritation consisting of redness and/or swelling. Inhalation of high concentrations of powder, dust, or fume may cause respiratory and nasal irritation with coughing, and difficulty breathing. This product is toxic and may be harmful or fatal if inhaled, absorbed through the skin, or swallowed. Ingestion of dust may cause nausea, vomiting, constipation, cramps, and or stomach pain.

Prolonged or repeated skin contact with dust may cause an allergic skin reaction (sensitization) consisting of itching, redness, swelling, and rash in sensitive individuals. Prolonged or repeated inhalation of dust or fume may cause more severe irritation and possibly lung damage. Known health hazards associated with individual chemical components of this mixture include, dilation of blood vessels and drop in blood pressure (nitroglycerin), reproductive toxicity (dibutyl phthalate), skin sensitization (rosin), kidney damage (diphenylamine), liver damage (ethyl acetate), methemoglobinemia (potassium nitrate), and bladder cancer (N-nitrosodiphenyl amine).

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Nitrocellulose	40 - 85	9004-70-0	Polymer
Nitroglycerin	10 – 30 or 30 – 60	55-63-0	200-240-8
Diethyl-diphenylurea	3 – 7	85-98-3	291-645-2
Dibutyl phthalate	1 – 5	84-74-2	201-55-74
Polyester adipate	1 – 5	Proprietary	N.A.
Rosin	1 – 5	8050-09-7	232-475-7
Diphenylamine	0.5 – 1.5	122-39-4	204-539-4
Ethyl acetate	0.5 – 1.5	141-78-6	205-500-4
Potassium nitrate	0.5 – 1.5	7757-79-1	231-818-8
Potassium sulfate	0.5 – 1.5	7778-80-5	231-915-5
Graphite	0.02 -1	7782-42-5	Polymer
N-nitrosodiphenyl amine	0.1 – 1	86-30-6	201-663-0

### 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:** In case of contact, carefully remove contaminated clothing and shoes. Wash affected skin with plenty of soap and water. Wash clothing before reuse and thoroughly clean shoes before reuse. If necessary, Get medical attention.
- 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, get medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

#### Medical Conditions Aggravated By Exposure:

Exposure to product dust may aggravate dermatitis, asthma, emphysema, or other respiratory disease. Also, kidney, liver, blood or cardiovascular disease may be worsened.

#### Recommendations To Physicians:

There is no specific antidote to the active ingredients in this product. Remove affected individual(s) from exposure, if possible, and treat symptoms.

### 5. FIRE FIGHTING MEASURES

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	Yes	Flammable	Not applicable
Combustible	Not applicable	Pyrophoric	No
Flash Point (°C):	Not applicable	Burning Rate of Material:	No data
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	190 - 200°C
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	Explosive

Unusual Fire and Explosion Hazards:

Extinguishing Media:

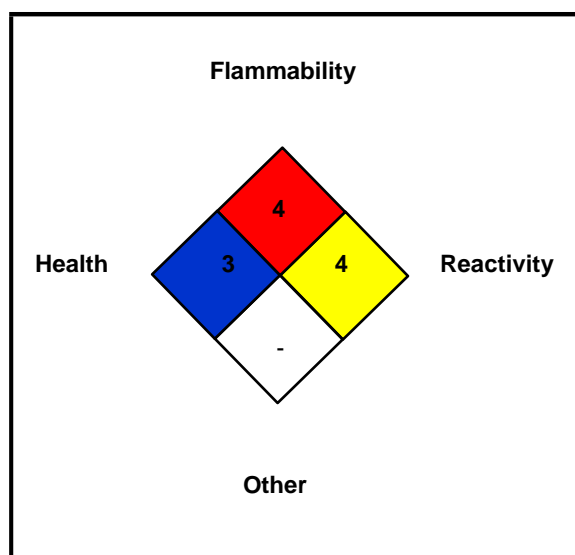
Special Firefighting Procedures:

Dust may cause an ignitable and/or an explosive atmosphere. For localized powder fires, smother with dry sand, dry dolomite, sodium chloride or soda ash. Use fire-extinguishing media appropriate to fight surrounding fire. Do not fight fire when fire reaches cargo. Cargo may explode. If possible, isolate materials not yet involved in the fire. Move containers from fire area.


Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Protective clothing must prevent personal contact with this material. Those items include but are not limited to: boots, gloves (neoprene, chlorinated polyethylene, butyl rubber), hard hat and impervious clothing, i.e., chemically impermeable suit. Wash all clothing prior to reuse.

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)		3*	
FLAMMABILITY HAZARD (RED)		3	
PHYSICAL HAZARD (YELLOW)		4	
<b>PROTECTIVE EQUIPMENT</b>			
EYES	PPE CODE	RESPIRATORY	HEARING
	D	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:

SPILLS OF THIS MATERIAL MAY REPRESENT AN EXPLOSION HAZARD and should be handled carefully. This product may explode if subjected to heat, shock, friction, static discharge, or impact. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. A spill of this material may require emergency response team capabilities; call 1-888-289-1911 for technical assistance.

Wet all spill materials prior to initiating clean up procedure. Use non-sparking or plastic equipment to clean up spill. Wear non-flammable or flame retardant clothing at all times. Material may best be destroyed if burned in an open flame burn if permissible by all regulatory functions. Spread material in thin layers and ignite from a remote location using a slow burning train.

Accidental Release Procedures:

Water Release: This material is heavier than water. Create an overflow dam with filtration capabilities to retain material. Divert water flow or stop if possible. Gather wet material using non-sparking or plastic utensils. Keep material damp until ready for disposal.

**7. HANDLING AND STORAGE**Precautions for Safe Handling:

Avoid dispersion of dust in air. Do not expose to direct sunlight. Do not subject to mechanical shock, heat or electrical discharge. 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 original containers in a cool, dry, well ventilated place away from all sources of ignition. Do not store at temperatures above 38°C (100°F). Store in accordance with local regulations. Store away from acids, 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
9004-70-0	Nitrocellulose	None established	None established	None established
55-63-0	Nitroglycerin	0.05 ppm (0.46 mg/m <sup>3</sup> ) Skin	Ceiling – 0.2 ppm (2 mg/m <sup>3</sup> ) Skin	Denmark: 0.02 ppm (0.2 mg/m <sup>3</sup> ) Norway, Sweden: 0.03 ppm (0.3 mg/m <sup>3</sup> ) Austria, Belgium, Germany, The Netherlands, Poland, Switzerland: 0.05 ppm (0.47 mg/m <sup>3</sup> ), skin Finland, France: 0.1 ppm (0.9 mg/m <sup>3</sup> ), skin U.K.: 0.2 ppm (2 mg/m <sup>3</sup> ), skin
85-98-3	Diethyl diphenylurea	None established	None established	None established
84-74-2	Dibutyl phthalate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Belgium, Denmark, France, Netherlands, Switzerland, U.K.: 5 mg/m <sup>3</sup> Sweden: 3 mg/m <sup>3</sup>
Proprietary	Polyester adipate	None established	None established	None established
8050-09-7	Rosin	Sensitizer – reduce to as low as possible	None established	None established
122-39-4	Diphenylamine	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Austria, Belgium, Netherlands, Switzerland, U.K.: 10 mg/m <sup>3</sup> Denmark, Norway: 5 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	400 ppm (1400 mg/m <sup>3</sup> )	400 ppm (1400 mg/m <sup>3</sup> )	Austria, Belgium, France, Germany, Switzerland, Turkey, U.K.: 400 ppm Denmark, Norway, Sweden: 150 ppm Finland: 300 ppm
7757-79-1	Potassium	None established	None established	None established

	nitrate			
7778-80-5	Potassium sulfate	None established	None established	None established
7782-42-5	Graphite	2 mg/m <sup>3</sup> (respirable)	5 mg/ m <sup>3</sup> (respirable)	Germany: 1.5 mg/m <sup>3</sup> (respirable)
86-30-6	N-nitrosodiphenyl amine	None established	None established	None established

Engineering Controls:

Use explosion-proof ventilation in all cases. Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

Respiratory Protection:

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.

Eye/Face Protection:

Use safety glasses and face shield

Hand Protection:

Wear impervious gloves

Skin Protection:

Wear protective clothing (aprons, coveralls) as appropriate to prevent skin contact when using this product. If generating a dust, wash thoroughly after handling, especially before eating, drinking, or smoking. Work clothing is not to be worn home.

Hearing Protection:

Not normally needed.

General Hygiene:

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>	Granular solid	<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>	No data
<i>Vapor Pressure (mm Hg):</i>	< 1 mm Hg	<i>Freezing point:</i>	Not applicable
<i>Vapor Density (air = 1):</i>	Not applicable	<i>Bulk Density (g/cc):</i>	0.5 – 1
<i>Specific gravity (g/cc):</i>	1.2 – 1.6	<i>Viscosity (cps):</i>	Not applicable
<i>pH:</i>	Not applicable	<i>Decomposition Temperature:</i>	Decomposition becomes measurable above 50°C (122°F)
<i>Solubility in Water (20 °C):</i>	Negligible	<i>Evaporation Rate:</i>	Negligible
<i>Volatiles, Percent by volume:</i>	< 2	<i>Octanol/water partition coefficient:</i>	Unknown

**10. STABILITY AND REACTIVITY**Stability:

Can ignite due to impact or static discharge.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur

Incompatible Materials:

Acetylene, chlorine

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic fumes from diphenylamine composition

Conditions to Avoid:

Avoid direct sunlight and open flame

**11. TOXICOLOGICAL INFORMATION**

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

Effects Of Acute Exposure:

PRODUCT		SELECTED COMPONENTS						
		Nitroglycerin	Diphenyl amine	N-nitroso diphenyl amine	Potassium nitrate	Ethyl acetate	Dibutyl phthalate	Rosin
Inhalation LC <sub>50</sub>	Believed to be toxic	No data	No data	No data	No data	200 mg/m <sup>3</sup>	4250 mg/m <sup>3</sup> (rat)	No data
Skin Contact LD <sub>50</sub>	Believed to be toxic	> 280 mg/kg (rabbit)	No data	> 7.94 g/kg (rabbit)	No data	> 20 ml/kg (rabbit)	> 20 ml/kg (rabbit)	No data
Ingestion LD <sub>50</sub>	Believed to be toxic	105 mg/kg (rat)	1.12 g/kg (rat)	1.825 g/kg (rat)	3.75 g/kg (rat)	5.62 g/kg (rat)	8 g/kg (rat)	No data

PRODUCT		SELECTED COMPONENTS						
		Nitroglycerin	Diphenyl amine	N-nitroso diphenyl amine	Potassium nitrate	Ethyl acetate	Dibutyl phthalate	Rosin
Irritation	Eye, skin and respiratory irritant	Mild eye and skin irritant	No data	Severe eye irritant	No data	No data	No data	No data
Sensitization	Skin sensitizer	No data	No data	No data	No data	No data	No data	Skin sensitizer

Other Adverse Effects:Target Organ Toxicity:

No reported target organ toxicity from this product. Diphenylamine has been shown to induce kidney damage in laboratory animals. When fed to dogs for a period of 2 years, the rate of growth was depressed and anemia and liver damage developed.

Reproductive Toxicity:

This product is not known or reported to cause reproductive effects. Dibutyl phthalate has caused adverse reproductive effects in animal studies.

Teratogenicity (Birth Defects):

This product is not known or reported to cause developmental toxicity. Diphenylamine administered via the diet to pregnant rats caused teratogenic effects in the offspring. Dibutyl phthalate has also been reported to cause adverse developmental effects in animal studies.

Mutagenicity:

This product is not known or reported to be mutagenic. N-nitrosodiphenylamine has tested positive in a variety of *in vitro* and *in vivo* mutagenicity assays.

Carcinogenicity:

This product is not listed as a carcinogen by OSHA, NTP or IARC. N-nitrosodiphenylamine caused an increase in bladder and kidney tumors during chronic administration to laboratory animals. EPA classifies n-nitrosodiphenylamine as a probable human carcinogen, B2. IARC classifies it as a Group 3 carcinogen (unclassifiable as to human carcinogenicity). The European Union classifies N-nitrosodiphenylamine as a Category 3 carcinogen.

**12. ECOLOGICAL INFORMATION**Environmental Effects:

PRODUCT: Product has not been tested for environmental properties.

## COMPONENTS:

Nitroglycerin:

LC<sub>50</sub> = 1.228 mg/l to Bluegill, (96 hour, static)

Nitrocellulose:

LC<sub>50</sub> > 1000 mg/l to fish, invertebrates, and algae.

Environmental Fate:

MOBILITY: No data  
 PERSISTANCE/DEGRADABILITY: No data  
 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: Powder, smokeless



Hazard Class Number and Description: Explosive 1.3C

UN Identification Number: UN 0161

Packing Group: PGII

DOT Label(s) Required: Explosive 1.3C

Marine Pollutant: Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

Special Comments: Forbidden on passenger or cargo only aircraft. Forbidden on passenger vessel.  
Forbidden by transport on passenger carrying roadways or railways

Additional Information:

North American Emergency Response Guidebook Number (2004): 112

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 INFORMATION**US FEDERAL

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.			
CERCLA:	Ethyl acetate, R.Q.*= 5000 lbs.; N-Nitrosodiphenyl amine, R.Q. = 100 lbs; Nitroglycerin, R.Q. = 10 lbs; Dibutyl phthalate, R.Q. = 10 lbs.			
SARA 313:	Dibutyl phthalate, Nitroglycerin			
SARA 311/312:	<u>Health:</u>	Acute – Yes Chronic - Yes	<u>Fire:</u> No	<u>Reactivity:</u> Yes <u>Release of Pressure:</u> 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
Nitrocellulose	Not listed	X	X	X	Not listed
Nitroglycerin	Not listed	X	X	X	Not listed
Diethyl diphenylurea	Not listed	Not listed	Not listed	Not listed	Not listed
Dibutyl phthalate	X	X	X	X	X
Polyester adipate	Not listed	Not listed	Not listed	Not listed	Not listed
Rosin	Not listed	Not listed	Not listed	Not listed	Not listed
Diphenylamine	Not listed	X	X	X	Not listed
Ethyl acetate	Not listed	X	X	X	Not listed
Potassium nitrate	Not listed	X	X	X	Not listed
Potassium sulfate	Not listed	Not listed	Not listed	Not listed	Not listed
Graphite	Not listed	X	Not listed	Not listed	Not listed
N-nitrosodiphenyl amine	X	X	X	X	X

**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**

Explosive Division 1.1  
Acute Toxicity Category 3  
Skin Irritation Category 2  
Eye Irritation Category 2  
STOT-SE, Respiratory Irritation Category 3  
Skin Sensitization Category 1  
Carcinogen Category 2  
Reproductive Toxicity Category 2  
Aquatic Environment, Chronic II

**EUROPEAN REGULATIONS****Hazard Classification**

Hazard Symbols: E, T, Xi, N  
Risk Phrases: R3, R23/24/25, R36/37/38, R40, R43, R62/63, R51/53  
Safety Phrases: S15/16, S20/21, S22/24/25, S36/37/39, S45, S61

German WGK Classification: 3

**CANADIAN REGULATIONS**

DSL/NDSL Inventory: The components of this product are on the DSL  
IDL: Dibutyl phthalate, Diphenylamine, Ethyl acetate, N-nitrosodiphenyl amine  
CEPA PRIORITIES LIST: Dibutyl phthalate  
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 are listed

**OTHER INTERNATIONAL CHEMICAL INVENTORIES**

Swiss Giftlist 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](http://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.