# Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

Product Name • Shotshell Loaded Round (Lead-Free Frangible)

Synonyms • Shotshell Buckshot Loaded Rounds; Shotshell Slug Loaded Rounds

**SDS Number/Grade** • SSLDLFHMFTemp

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Military & Law Enforcement; Civilian Self-Defense

### 1.3 Details of the supplier of the safety data sheet

Manufacturer • Remington Arms

2592 AR HWY 15 N Lonoke, AR 72086 United States www.remington.com

**Telephone (General)** • 501-676-3161

### 1.4 Emergency telephone number

**Manufacturer** • (800) 424-9300 **Manufacturer** • 501-676-3161

#### **Section 2: Hazards Identification**

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

### 2.1 Classification of the substance or mixture

**CLP** • Explosives 1.4 - H204

Acute Toxicity Oral 3 - H301 Acute Toxicity Dermal 1 - H310 Acute Toxicity Inhalation 2 - H330

Hazardous to the aquatic environment Chronic 3 - H412

2.2 Label Elements

**CLP** 

**DANGER** 





#### **Hazard statements** • H204 - Fire or projection hazard

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

#### Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

P240 - Ground and/or bond container and receiving equipment.

P250 - Do not subject to grinding/shock/friction.

P260 - Do not breathe dust/fume.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash 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.

P284 - Wear respiratory protection.

#### **Response** • P370+P380 - In case of fire: Evacuate area.

P372 - Explosion risk in case of fire.

P373 - DO NOT fight fire when fire reaches explosives.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water.

P310 - Immediately call a POISON CENTER or doctor/physician.

P322 - Specific measures, see supplemental first aid information.

P361 - Remove/Take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P330 - Rinse mouth.

#### Storage/Disposal • P401 - Store in accordance with local, regional, national, and/or international

regulations.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

Supplemental information • Dermal Toxicity 69-83 percent of this product consists of an ingredient of unknown toxicity.

Inhalation Toxicity 69-83 percent of this product consists of an ingredient of unknown

toxicity.

Oral Toxicity 1.1-11 percent of this product consists of an ingredient of unknown

toxicity.

#### 2.3 Other Hazards

**CLP** 

May form combustible dust concentrations in air.

According to Regulation (EC) No. 1272/2008 (CLP) this material is considered

hazardous.

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** 

Explosives 1.4 Acute Toxicity Oral 4 Skin Sensitization 1 Combustible Dust

Preparation Date: 10/August/2007 Format: EU CLP/REACH Language: English (US) EU CLP, OSHA HCS 2012 Revision Date: 15/June/2016 Page 2 of 19

# 2.2 Label elements OSHA HCS 2012

#### WARNING





Hazard statements • Fire or projection hazard

Harmful if swallowed

May cause an allergic skin reaction

May form combustible dust concentrations in air.

#### **Precautionary statements**

Prevention •

Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Ground and/or bond container and receiving equipment.

Do not subject to grinding/shock/friction.

Avoid breathing dust/fume. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response •

In case of fire: Evacuate area.

Explosion risk in case of fire.

DO NOT fight fire when fire reaches explosives. Fight fire with normal precautions from a reasonable distance.

If on skin: Wash with plenty of water.

Specific treatment, see supplemental first aid information. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel

unwell.

Rinse mouth.

Storage/Disposal •

Store in accordance with local, regional, national, and/or international regulations.

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Supplemental information •

Oral Toxicity 1.1-11 percent of this product consists of an ingredient of unknown

toxicity.

#### 2.3 Other hazards

**OSHA HCS 2012** 

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication

Standard), this product is considered hazardous.

# Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

#### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Iron	CAS:7439-89-6 EC Number:231- 096-4	68% TO 72%	Ingestion/Oral-Rat LD50 • 750 mg/kg		
Copper	CAS:7440-50-8 EC Number:231- 159-6	1% TO 8%	NDA	DA  EU CLP: STOT SE 3: Resp. Irrit., H335 OSHA HCS 2012: Comb. Dust; STOT SE 3: Resp. Irrit.	
Zinc	CAS:7440-66-6 EC Number:231- 175-3 EU Index:030- 001-00-1	0.1% TO 3%	NDA	EU CLP: Not Classified  OSHA HCS 2012: Comb. Dust; HNOC Health:Metal fume fever	
Nitroglycerin	CAS:55-63-0 EC Number:200- 240-8	0.3% TO 2.8%	Ingestion/Oral-Rat LD50 • 105 mg/kg  Skin-Rabbit LD50 •   >280 mg/kg  Skin-Rabbit LD50 •   Sk		NDA
Nitrate cellulose	CAS:9004-70-0 EU Index:603- 037-00-6	< 1%	Ingestion/Oral-Rat LD50 • >5 g/kg	EU CLP: Annex VI, Table 3.1: Expl. 1.1, H201 OSHA HCS 2012: Expl. 1.1	NDA
Carbon	CAS:7440-44-0 EC Number:231- 153-3	< 1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Comb. Dust	NDA
Potassium nitrate	CAS:7757-79-1 EC Number:231- 818-8	0% TO 0.1%	Ingestion/Oral-Rat LD50 • 3750 mg/kg	TUSHA HUS 7017, DY SOL 3, ACUTE LOY 4 (OFAI), STOLL I	
Barium	CAS:7440-39-3 EINECS:231-149 -1	0% TO 0.1%	NDA	EU CLP: Not Classified OSHA HCS 2012: Comb. Dust	NDA

See Section 16 for full text of H-statements.

#### Section 4 - First Aid Measures

### 4.1 Description of first aid measures

Inhalation

 First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air.
 Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

Eye

 First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Remove contact lenses if worn. Flush eyes with water for at least 15 minutes. If signs/symptoms develop, get medical attention.

Ingestion

 First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Give plenty of water to drink. Induce vomiting (only in conscious persons) Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

# 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** 

· No specific actions or treatments recommended related to exposure to this material.

# **Section 5 - Firefighting Measures**

# 5.1 Extinguishing media

**Suitable Extinguishing Media** • Water, carbon dioxide, dry chemical, earth.

Unsuitable Extinguishing Media

· No data available.

## 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

May ignite if heated above 130°C.

Will ignite when exposed to flame and high temperatures.

Be cautious of low-energy fragments.

Packages bearing the 1.4S label or packages containing material classified as 1.4S are designed orpackaged in such a manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments.

Effects are usually confined to immediate vicinity of packages.

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Hazardous Combustion Products** 

No data available

### 5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).
 Structural firefighters' protective clothing will only provide limited protection.
 Evacuate area.

Flood fire with water to fight fire and cool shells. If no water is available, use carbon dioxide, dry chemical or earth.

Fight fire with normal precautions from a reasonable distance.

#### Section 6 - Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Do not walk through spilled material. Do not strike or crush the rounds.

**Emergency Procedures** 

Eliminate all ignition sources. If fire threatens cargo area containing packages bearing
the 1.4S label or packages containing material classified as 1.4S, consider isolating
at least 15 meters (50 feet) in all directions. In fire situations move people out of line of
site of the scene and away from windows. Use normal clean up procedures.

## 6.2 Environmental precautions

No special environmental precautions necessary.

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#### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Preparation Date: 10/August/2007

Use clean nonsparking tools to collect material.
 Carefully shovel or sweep up spilled material and place in suitable container.

#### 6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

# **Section 7 - Handling and Storage**

# 7.1 Precautions for safe handling

Handling
 Handle with care. Do not strike or crush the rounds.

# 7.2 Conditions for safe storage, including any incompatibilities

Format: EU CLP/REACH Language: English (US) EU CLP, OSHA HCS 2012

#### **Storage**

 Keep only in the original container. Store in a cool, dry, well-ventilated place. Keep away from sources of ignition – No Smoking. Do not subject to mechanical shock. Keep out of reach of children. This product must not be stored with acids, strong oxidizers or caustics.

# 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

# **Section 8 - Exposure Controls/Personal Protection**

# 8.1 Control parameters

			Exposure Limits	/Guidelines		
	Result	ACGIH	Germany DFG	Germany TRGS	NIOSH	OSHA
Alimaiaim	TWAs	1 mg/m3 TWA (respirable fraction)	Not established	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Aluminum (7429-90-5)	MAKs	Not established	4 mg/m3 TWA MAK (dust, inhalable fraction); 1.5 mg/m3 TWA MAK (dust, respirable fraction)	Not established	Not established	Not established
Barium (7440-39-3)	TWAs	0.5 mg/m3 TWA	Not established	Not established	Not established	Not established
Antimony	TWAs	0.5 mg/m3 TWA	Not established	Not established	0.5 mg/m3 TWA	0.5 mg/m3 TWA
Zinc	Ceilings	Not established	0.4 mg/m3 Peak (respirable fraction); 4 mg/m3 Peak (inhalable fraction)	Not established	Not established	Not established
(7440-66-6)	MAKs	Not established	0.1 mg/m3 TWA MAK (respirable fraction); 2 mg/m3 TWA MAK (inhalable fraction)	Not established	Not established	Not established
	Ceilings	Not established	0.01 ppm Peak; 0.094 mg/m3 Peak	Not established	Not established	0.2 ppm Ceiling; 2 mg/m3 Ceiling
Nitroglycerin (55-63-0)	TWAs	0.05 ppm TWA	Not established	0.01 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1); 0.094 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1)	Not established	Not established
	STELs	Not established	Not established	Not established	0.1 mg/m3 STEL	Not established
	MAKs	Not established	0.01 ppm TWA MAK; 0.094 mg/m3 TWA MAK	Not established	Not established	Not established

	TWAs	0.2 mg/m3 TWA (fume)	Not established	Not established	,	0.1 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)
Copper	Ceilings	Not established	0.02 mg/m3 Peak (respirable fraction)	Not established	Not established	Not established
(7440-50-8)	MAKs	Not established	0.01 mg/m3 TWA MAK (including inorganic copper compounds, respirable fraction)	Not established	Not established	Not established

# **Exposure Control Notations ACGIH**

- •Nitroglycerin (55-63-0): Skin: (Skin potential significant contribution to overall exposure by the cutaneous route)
- •Aluminum (7429-90-5): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)
- •Aluminum as Aluminum insoluble compounds: Carcinogens: (A4 Not Classifiable as a Human Carcinogen)
- •Barium (7440-39-3): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)

#### **Germany TRGS**

•Nitroglycerin (55-63-0): Skin: (skin notation)

#### **Germany DFG**

- •Copper (7440-50-8): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)
- •Zinc (7440-66-6): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to (respirable, inhalable))
- •Nitroglycerin (55-63-0): **Carcinogens:** (Category 3B (could be carcinogenic for man)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)
- •Aluminum (7429-90-5): Pregnancy: (classification not yet possible (respirable, inhalable, dust))
- •Antimony (7440-36-0): Carcinogens: (Category 2 (considered to be carcinogenic for man))

# **Exposure Limits Supplemental** ACGIH

- •Copper (7440-50-8): TLV Basis Critical Effects: (metal fume fever (fume))
- Copper as Copper compounds: TLV Basis Critical Effects: (gastrointestinal (dust and mist); irritation (dust and mist))
- •Nitroglycerin (55-63-0): TLV Basis Critical Effects: (vasodilation)
- •Aluminum (7429-90-5): TLV Basis Critical Effects: (pneumoconiosis; lower respiratory tract irritation; neurotoxicity)
- •Aluminum as Aluminum insoluble compounds: TLV Basis Critical Effects: (pneumoconiosis; lower respiratory tract irritation; neurotoxicity)
- •Antimony (7440-36-0): TLV Basis Critical Effects: (skin and upper respiratory tract irritation)
- •Antimony as Antimony compounds: TLV Basis Critical Effects: (skin and upper respiratory tract irritation)
- •Barium (7440-39-3): **TLV Basis Critical Effects:** (eye, gastrointestinal and skin irritation; muscular stimulation)

# 8.2 Exposure controls

# **Engineering Measures/Controls**

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### **Personal Protective Equipment**

#### Respiratory

 Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear safety glasses.

Skin/Body

Wear protective clothing

# **Environmental Exposure Controls**

Controls should be engineered to prevent release to the environment, including
procedures to prevent spills, atmospheric release and release to waterways. Follow
best practice for site management and disposal of waste.

# Additional Protection Measures

Hearing protection recommended when firing rounds.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Brass, copper and/or silver/gray colored metal and a body of various colors with no odor.
Color	Metal: Brass, Copper and/or Silver/Gray; Body: Various.	Odor	Odorless
Odor Threshold	Data lacking		
General Properties		-	•
Boiling Point	Data lacking	Melting Point/Freezing Point	130 °C(266 °F)
Decomposition Temperature	93.3 °C(199.94 °F)	рН	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Negligible < 0.1 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			-
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	130 °C(266 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

#### 9.2 Other Information

No additional physical and chemical parameters noted.

# **Section 10: Stability and Reactivity**

# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

· Stable under normal temperatures and pressures.

# 10.3 Possibility of hazardous reactions

· Hazardous polymerization will not occur.

# 10.4 Conditions to avoid

Flames, sparks, percussion, shock, static, high temperatures (266°F or 130°C, or above)

# 10.5 Incompatible materials

· Acids, strong oxidizers, caustics

# 10.6 Hazardous decomposition products

No data available.

# **Section 11 - Toxicological Information**

# 11.1 Information on toxicological effects

	1	Components
Copper (1% TO 8%)	7440- 50-8	Acute Toxicity: Ingestion/Oral-Mouse TDLo • 108 mg/kg; Behavioral:Tremor; Gastrointestinal:Hypermotility, diarrhea; Gastrointestinal:Nausea or vomiting; Ingestion/Oral-Mouse TDLo • 158 mg/kg; Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis); Ingestion/Oral-Mouse TDLo • 232 mg/kg; Kidney, Ureter, and Bladder:Changes primarily in glomeruli; Blood:Changes in spleen; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Multi-dose Toxicity: Ingestion/Oral-Rabbit TDLo • 3 g/kg 60 Day(s)-Continuous; Cardiac:Other changes; Liver:Hepatitis (hepatocellular necrosis), zonal; Related to Chronic Data:Death in the Other Multiple Dose data type field; Reproductive: Ingestion/Oral-Rat TDLo • 1520 μg/kg (22W pre); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Ingestion/Oral-Rat TDLo • 1210 μg/kg (35W pre); Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 10.08 mg/kg 12 Week(s)-Continuous; Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Other changes
Zinc (0.1% TO 3%)	7440- 66-6	Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 12.6 mg/kg 46 Week(s)-Continuous; Tumorigenic:Carcinogenic by RTECS criteria; Gastrointestinal:Tumors; Tumorigenic:Facilitates action of known carcinogen
Nitroglycerin (0.3% TO 2.8%)	55-63 -0	Acute Toxicity: Ingestion/Oral-Woman TDLo • 5 mg/kg; Behavioral:General anesthetic; Cardiac:Other changes; Kidney, Ureter, and Bladder:Incontinence; Skin-Rabbit LD50 • >280 mg/kg; Irritation: Eye-Rabbit • 0.1 mL; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Reproductive: Skin-Rat TDLo • 3640 mg/kg (17-21D preg/21D post); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Newborn:Viability index (e.g., # alive at day 4 per # born alive); Tumorigen / Carcinogen: Ingestion/Oral-Rat TDLo • 240170 mg/kg 2 Year(s)-Intermittent; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Liver:Tumors; Tumorigenic:Increased incidence of tumors in susceptible strains
Nitrate cellulose (< 1%)	9004- 70-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5 g/kg
Potassium nitrate (0% TO 0.1%)	7757- 79-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3540 mg/kg; Lungs, Thorax, or Respiration:Other changes; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Ingestion/Oral-Rat TDLo • 10 mg/kg; Blood:Metheinoglobincinia-Carboxyhemoglobin; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 2250 mg/kg 150 Day(s)-Intermittent; Endocrine:Thyroid weight (goiter); Endocrine:Evidence of thyroid hypofunction; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Reproductive: Ingestion/Oral-Rabbit TDLo • 6505 mg/kg (23-27D preg); Reproductive Effects:Effects on Fertility:Abortion
Barium (0% TO 0.1%)	7440- 39-3	Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 26622 mg/kg 69 Week(s)-Continuous; Vascular:BP elevation not characterized in autonomic section; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Cytochrome oxidases (including oxidative phosphorylation); Biochemical:Metabolism (intermediary):Xanthine, purine, or nucleotides including urate
Iron (68% TO	7439-	Acute Toxicity: Ingestion/Oral-Rat LD50 • 750 mg/kg; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Transaminases; Ingestion/Oral-Child TDLo • 77 mg/kg; Behavioral:Irritability; Gastrointestinal:Nausea or

72%)

89-6

vomiting; Blood:Normocytic anemia;

Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 105 mg/kg 5 Week(s)-Continuous; *Liver*:Tumors; *Tumorigenic*:Active as anti-cancer agent; *Tumorigenic*:Protects against induction of experimental tumors

GHS Properties	Classification		
Acute toxicity	EU/CLP • Acute Toxicity - Dermal 1 - ATEmix (dermal) = 30 mg/kg; Acute Toxicity - Inhalation 2 - ATEmix (inhl) = 0.30 mg/L (4h); Acute Toxicity - Oral 3 - ATEmix (oral) = 136 mg/kg  OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (oral) = 726 mg/kg		
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Skin Sensitizer 1		
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking		

# Potential Health Effects Inhalation

Acute (Immediate)

 Fatal if inhaled. Inhalation of dust or fumes may cause irritation to nose, throat, upper respiratory tract and lungs. Irritation may lead to bronchitis, headache, lowering of blood pressure and weakness.

**Chronic (Delayed)** 

Skin

Acute (Immediate)

No data available

• Fatal in contact with skin. May cause skin sensitization. Symptoms include redness, and skin rash.

Chronic (Delayed) • No data available

Eye

Acute (Immediate)

• Dust and fumes can irritate the eyes causing redness and discharge.

**Chronic (Delayed)** • No data available

Ingestion

Acute (Immediate)

 Toxic if swallowed. Ingestion may cause severe headache, nausea, vomiting, abdominal pain, fatigue, diarrhea, trembling, ringing in ear and salivation.

Chronic (Delayed)No data available

#### **Carcinogenic Effects**

 This product is not classified a carcinogen by IARC, OSHA, NTP or EPA. However, there are some components that are carcinogens according to these agencies.

Carcinogenic Effects					
	CAS IARC				
Potassium nitrate as Nitrate Compounds	NDA	Group 2A-Probable Carcinogen			

#### Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

# **Section 12 - Ecological Information**

## 12.1 Toxicity

	CAS	
Shotshell Loaded Round (Lead- Free Frangible)	NDA	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Mudskipper (Periophthalmus waltoni) 0.00648 mg/L Comments: Iron (7439-89-6) 7 Day(s) NOEC Brown Trout (Salmo trutta) 0.305 mg/L Comments: Iron (7439-89-6) 4 Day(s) LC50 Bluegill 0.87-3.25 mg/L Comments: Nitroglycerin (55-63-0) Aquatic Toxicity-Crustacea: 2 Day(s) EC50 Water flea 38-55 mg/L Comments: Nitroglycerin (55-63-0) 7 Day(s) NOEC Aquatic Sowbug, Isopod (Idotea balthica) 0.5 mg/L Comments: Iron (7439-89-6) Aquatic Toxicity-Algae and Other Aquatic Plant(s): 4 Day(s) EC50 Green Algae 0.1-1.3 mg/L Comments: Nitroglycerin (55-63-0)

Harmful to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

· Material data lacking.

# 12.3 Bioaccumulative potential

Material data lacking.

### 12.4 Mobility in Soil

Material data lacking.

#### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been conducted for this material.

# 12.6 Other adverse effects

· No studies have been found.

# **Section 13 - Disposal Considerations**

#### 13.1 Waste treatment methods

**Product waste** 

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Revision Date: 15/June/2016

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# **Section 14 - Transport Information**

	14.1 UN	14.2 UN proper	14.3 Transport hazard	14 4 Packing	14.5 Environmental
	14.1 UN	14.2 UN Proper	14.5 Halisport Hazaru	14.4 Packing	14.5 Environmental

Preparation Date: 10/August/2007 Format: EU CLP/REACH Language: English (US) EU CLP, OSHA HCS 2012

	number	shipping name	class(es)	group	hazards
DOT	UN0012	Cartridges, small arms	1.4S	II	NDA
TDG	UN0014	CARTRIDGES, SMALL ARMS	1.4S	II	NDA
IMO/IMDG	UN0012	CARTRIDGES, SMALL ARMS	1.4S	II	NDA
IATA/ICAO	UN0012	Cartridges, small arms	1.4S	II	NDA

14.6 Special precautions for user

· None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

· Not relevant.

# **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • Acute, Pressure(Sudden Release of)

	State Right To Know						
Component	CAS	MA	NJ	PA			
Barium	7440-39-3	Yes	Yes	Yes			
Carbon	7440-44-0	No	No	No			
Copper	7440-50-8	Yes	Yes	Yes			
Iron	7439-89-6	No	No	No			
Nitrate cellulose	9004-70-0	Yes	Yes	Yes			
Nitroglycerin	55-63-0	Yes	Yes	Yes			
Potassium nitrate	7757-79-1	Yes	Yes	Yes			
Zinc	7440-66-6	Yes	Yes	Yes			

Inventory				
Component	CAS	EU EINECS	EU ELNICS	TSCA
Barium	7440-39-3	Yes	No	Yes
Carbon	7440-44-0	Yes	No	Yes
Copper	7440-50-8	Yes	No	Yes
Iron	7439-89-6	Yes	No	Yes
Nitrate cellulose	9004-70-0	No	No	Yes
Nitroglycerin	55-63-0	Yes	No	Yes
Potassium nitrate	7757-79-1	Yes	No	Yes
Zinc	7440-66-6	Yes	No	Yes

## **Europe**

#### Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Nitroglycerin 55-63-0 T+; R26/27/28 E; R3 R33 N; R51-53

Barium
 Carbon
 7440-39-3 Not Listed
 Not Listed
 Not Listed

• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	E; R3
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
ELL CLD (4272/2009) Appey VI Toble 2.2. Lobelling		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling	FF 02 0	E T+ N R:3-26/27/28-33-51/53
Nitroglycerin	55-63-0	S:(1/2)-33-35-36/37-45-61
Barium	7440-39-3	Not Listed
Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	E R:3 S:(2)-35
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and	l Preparations	
Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	Not Listed
Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	T
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Nitroglycerin	55-63-0	S:(1/2)-33-35-36/37-45-61
Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	
Potassium nitrate		Not Listed Not Listed
	7757-79-1	
Nitrate cellulose	9004-70-0	S:(2)-35

# **United States**

Labor U.S OSHA - Process Safety Management - Highly Hazardous Chemicals			
Nitroglycerin	55-63-0	Not Listed	
• Barium	7440-39-3	Not Listed	
• Carbon	7440-44-0	Not Listed	
• Copper	7440-50-8	Not Listed	

• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	2500 lb TQ (concentration >12.6% Nitrogen)
U.S OSHA - Specifically Regulated Chemicals		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		NL (IP ( )
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantition		40 11 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Nitroglycerin	55-63-0	10 lb final RQ; 4.54 kg final RC
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the
		diameter of the nieces of the
• Copper	7440-50-8	diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
• Copper  • Zinc	7440-50-8 7440-66-6	solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)  454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal
		solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)  454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of this hazardous substance is required if the diameter of the
• Zinc	7440-66-6	solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)  454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

THE OFFICIAL PRINCIPLE OF THE OFFICE		
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	FF 00 0	Nick Links d
• Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EP	CRA RQs	
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TP		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Nitroglycerin	55-63-0	1.0 % de minimis
		concentration
Barium	7440-39-3	1.0 % de minimis
	7440 44 0	concentration
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	1.0 % de minimis concentration
7:50	7440.00.0	1.0 % de minimis
• Zinc	7440-66-6	concentration (dust or fume only)
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing	55-63-0	Not Listed
Nitroglycerin     Parium		
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate     Nitrate callulace	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed

U.S EPA - Designated Generic Categories - Nitrate Compounds		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	RR-03804-0
Nitrate cellulose	9004-70-0	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VI	I	
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Included in waste stream: F039
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
	., .	
U.S RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Mo • Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	(total)
• Carbon	7440-39-3	Not Listed
• Copper	7440-44-0	(total)
• Zinc	7440-66-6	(total)
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
Trittate conditions	3004 70 0	Not Elsted
U.S RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc o	f Contaminant	s for the Tox Characteristic
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	100.0 mg/L regulatory level
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
II.C. DCDA (December Composition & December Act). Hereadous Comptituents. Assessed		OFD 204
U.S RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appel • Nitroglycerin	55-63-0	waste number P081
Barium	7440-39-3	hazardous constituent - no
		waste number
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituen	ts	
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	(total)
		` '

Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	(total)
• Zinc	7440-66-6	(total)
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - P Series	Wastes - Acutely Toxic Wastes	
Nitroglycerin	55-63-0	waste number P081 (Reactive waste)
Barium	7440-39-3	Not Listed
Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 L	DR Rule - Universal Treatment Stan	dards
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	1.2 mg/L (wastewater); 21 mg/L TCLP (nonwastewater)
Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	2.61 mg/L (wastewater); 4.3 mg/L TCLP (nonwastewater)
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - TSD Facil	lities Ground Water Monitoring	
Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	(total)
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	(total)
• Zinc	7440-66-6	(total)
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed

# **United States - California**

Environment U.S California - Proposition 65 - Carcinogens List		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	Not Listed

• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
ILS Colifornia Proposition SE Poproductive Toxicity Female		
U.S California - Proposition 65 - Reproductive Toxicity - Female  • Nitroglycerin	55-63-0	Not Listed
Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-44-0 7440-50-8	Not Listed
• Zinc	7440-56-6 7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7439-89-8 7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Nitroglycerin	55-63-0	Not Listed
• Barium	7440-39-3	Not Listed
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	Not Listed
• Zinc	7440-66-6	Not Listed
• Iron	7439-89-6	Not Listed
Potassium nitrate	7757-79-1	Not Listed
Nitrate cellulose	9004-70-0	Not Listed
	2231.03	

# **United States - Pennsylvania**

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
Nitroglycerin	55-63-0	
• Barium	7440-39-3	
• Carbon	7440-44-0	Not Listed
• Copper	7440-50-8	(dust; fume; metal)

• Zinc	7440-66-6	
• Iron	7439-89-6 N	lot Listed
Potassium nitrate	7757-79-1 N	lot Listed
Nitrate cellulose	9004-70-0 N	lot Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazar	rdous Substances	
Nitroglycerin	55-63-0 N	lot Listed
Barium	7440-39-3 N	lot Listed
Carbon	7440-44-0 N	lot Listed
• Copper	7440-50-8 N	lot Listed
• Zinc	7440-66-6 N	lot Listed
• Iron	7439-89-6 N	lot Listed
Potassium nitrate	7757-79-1 N	lot Listed
Nitrate cellulose	9004-70-0 N	lot Listed

# 15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

#### Section 16 - Other Information

#### Relevant Phrases (code & full text)

H201 - Explosive; mass explosion hazard

H300 - Fatal if swallowed H302 - Harmful if swallowed

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

**Revision Date** 

**Preparation Date** 

Disclaimer/Statement of Liability

15/June/2016

10/August/2007

The information contained in this Safety Data Sheet is provided to all individuals who
are or will be exposed to this product through use, handling, storage or transport.
Remington believes, yet makes no warranty, that all information contained in this
document is current as of the date of publication.

**Key to abbreviations** NDA = No Data Available