

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 03/24/2020 First Date of Issue: 01/03/2020 Supersedes Date: 03/17/2020

Version: 1.2

SECTION 1: IDENTIFICATION

<u>Product Identifier</u> <u>Product Form:</u> Article

Product Name: FireStick™ muzzleloader propelling charge; encapsulated propellant capsule

Synonyms: Federal Premium, Federal Intended Use of the Product muzzleloader propelling charge

Name, Address, and Telephone of the Responsible Party

Company

Federal Cartridge Company

900 Ehlen Drive Anoka, MN 55303 T 1-800-635-7656

Emergency Telephone Number

Emergency number : 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Expl. 1.4S H204

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H204 - Fire or projection hazard

Precautionary Statements (GHS-US): P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

P234 - Keep only in original packaging.

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

P261 - Avoid breathing dust, fumes.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear face protection, protective gloves, protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment (see Section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P374 - Fight fire with normal precautions from a reasonable distance.

P501 - Dispose of contents/container according to local, regional, national, and

international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Lead and barium are toxic metals that may be released during the firing of primers. Care should be taken in the cleaning of range facilities to minimize the exposure potential to lead and barium. Persons engaged in these activities should wear protective clothing with an appropriate respirator. Range operators should consult OSHA

03/24/2020 EN (English US) 1/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1910.1025 for details pertaining to the handling of lead in the work environment. Severe lead intoxication has been associated in the past with sterility, abortion, and stillbirth. Exposure to lead can aggravate pre-existing anemia, cardiovascular and respiratory diseases and conditions related to the gastrointestinal, reproductive, renal (kidney), and central nervous systems.

Accidental Injury From Fired Cartridge: Fired ammunition can create serious injury, possibly both entrance and exit wounds. To avoid serious injury, use ammunition only in good condition and originally chambered for a particular caliber. Always keep the barrel free of any obstruction. If the gun fails to fire, a delayed firing may occur, or the gun may fire upon being opened. Keep gun muzzle pointed in a safe direction. Wait 30 seconds. Avoid exposure to breech. Carefully unload. A fired bullet has an extremely long range and can cause serious injury or death. Always be sure of the backstop, and practice safe muzzle control at all times. Avoid firing at surfaces.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Polyethylene (as body)	(CAS No) 9002-88-4	55-60	Not classified
Polystyrene (as cap)	(CAS No) 9003-53-6	1-2	Not classified
Nitrocellulose*	(CAS No) 9004-70-0	33-47	Explosive Solid 1.1, H201
Guanidine Nitrate	(CAS No) 506-93-4	4-14.5	Not classified
Ethyl Centralite	(CAS No) 85-98-3	0.4-2.4	Not classified
ATEC	(CAS No) 77-89-4	0.05-0.5	Skin Sensitization Cat 1
Potassium Perchlorate	(CAS No) 7778-74-7	0.4-2.4	Eye Irritaiton Cat 2
			Specific Target Organ (repeated
			exposure) Cat 1
Carbon Black	(CAS No) 1333-86-4	0.05-0.5	Eye Irritation Cat 2
			Carcinogenicity – Cat 2
Calcium Carbonate	(CAS No) 471-34-1	0.05-0.5	Not classified

^{*}The hazardous components of this product are encased within the body and cap and are unlikely to be released under normal handling conditions. Therefore, the health and environmental hazards associated with nitrocellulose do not apply to the product overall.

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where neccesary due to varying composition.

The actual concentration range is withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: Seek medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 $\textbf{Ingestion:} \ \textbf{Rinse mouth.} \ \textbf{Do NOT induce vomiting.} \ \textbf{Seek medical advice}.$

Most Important Symptoms and Effects Both Acute and Delayed

General: Projectiles from fired ammunition can cause puncture wounds. Seek medical treatment based on the blast and compression effects

Inhalation: Not expected to be a primary route of exposure.

Skin Contact: May cause an allergic skin reaction.

Eye Contact: None expected under normal conditions of use. **Ingestion:** Ingestion is likely to be harmful or have adverse effects. **Chronic Symptoms:** None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

03/24/2020 EN (English US) 2/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Fight fire with normal precautions from a reasonable distance.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Explosive. The effects are largely confined to the package and no projection of fragments of appreicable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package. Do not expose to heat, or ignition sources as this could cause an explosion. If heated above 200 °C (392 °F) may explode.

Reactivity: Hazardous reactions are unlikely to occur under normal circumstances.

Advice for Firefighters

Precautionary Measures Fire: Do not breathe fumes from fires or vapors from decomposition. Exercise caution when fighting any chemical fire. If product is unconfined, there is a greater risk for injury from projectiles.

Firefighting Instructions: In case of fire: Evacuate area. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of Barium, Lead, Antimony, Aluminum, Magnesium, Nitrogen, Carbon, and Sulfur.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources.

Environmental Precautions

Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid. Use only non-sparking tools. **Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Projectiles from fired ammunition can cause puncture wounds. Avoid striking the primer of unchambered cartridges. Remove ammunition from service if any of the following conditions have occurred: corrosion, physical damage, exposure to oil or spray type lubricants.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Store as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR Part 555. Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep/Store away from heat sources, ignition sources, and incompatible materials. Keep container closed when not in use.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Storage Area: Keep only in original container.

03/24/2020 EN (English US) 3/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Specific End Use(s) Small Arms Ammunition

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters – not available

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Safety glasses.



Viscosity



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: In case of projectile hazard: Safety glasses. Face shield. **Skin and Body Protection:** Wash contaminated clothing before reuse.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Other Information: Do not eat, drink or smoke during use. If noise levels exceed OSHA limits while firing this product, use hearing protection in accordance with OSHA's Hearing Conservation Standard, 29 CFR 1910.95.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Solid

Appearance : Plastic surround propellant capsule, plastic body of varying color.

Odor Not available **Odor Threshold** Not available Not available Relative Evaporation Rate (butylacetate=1) Not available **Melting Point** Not available **Freezing Point** Not available **Boiling Point** Not available **Flash Point** Not available **Auto-ignition Temperature** Not available Not available **Decomposition Temperature** Flammability (solid, gas) Not available **Lower Flammable Limit** Not available Not available **Upper Flammable Limit Vapor Pressure** Not available Relative Vapor Density at 20 °C Not available **Relative Density** Not available **Specific Gravity** Not available Solubility Not available Partition coefficient: n-octanol/water Not available

Explosive properties : Explosive; fire or projection hazard
Explosion Data – Sensitivity to Mechanical Impact : Sensitive to mechanical impact

Explosion Data – Sensitivity to Static Discharge : Insensitive

03/24/2020 EN (English US) 4/8

Not available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions are unlikely to occur under normal circumstances.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7). However, because of the design of ammunition and its components, partial detonation upon impact or intense heat may occur. Mass detonation will not occur.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. **Hazardous Decomposition Products:** Metal oxides. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

Small Arms Ammunition	
ATE US (oral)	100.00 mg/kg body weight
ATE US (dermal)	300.00 mg/kg body weight
ATE US (dust, mist)	0.50 mg/l/4h

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Reasonably anticipated to be human carcinogen. **Specific Target Organ Toxicity (Repeated Exposure):** Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Not expected to be a primary route of exposure.

Symptoms/Injuries After Skin Contact: None expected under normal conditions of use.

Symptoms/Injuries After Eye Contact: None expected under normal conditions of use.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Nitrocellulose	
LD50 Oral Rat	5000 mg/kg
Ethyl Centralite	
LD50 Oral Rat	2750 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified

Persistence and Degradability Not classified

Bioaccumulative Potential Not classified

Mobility in Soil Not classified

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

03/24/2020 EN (English US) 5/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : ARTICLES, EXPLOSIVE, N.O.S. (charges, propelling)

Hazard Class: 1.4SIdentification Number: UN0349Label Codes: 1.4S

Packing Group : ERG Number : 114

14.2 In Accordance with IMDG

Proper Shipping Name : ARTICLES, EXPLOSIVE, N.O.S. (charges, propelling)

Hazard Class: 1.4SIdentification Number: UN0349Label Codes: 1.4SEmS-No. (Fire): F-BEmS-No. (Spillage): S-X

14.3 In Accordance with IATA

Proper Shipping Name : ARTICLES, EXPLOSIVE, N.O.S. (charges, propelling)

Identification Number: UN0349Hazard Class: 1

Label Codes : 1.4S ERG Code (IATA) : 3L

14.4 In Accordance with TDG

Proper Shipping Name : ARTICLES, EXPLOSIVE, N.O.S. (charges, propelling)

Packing Group : II
Hazard Class : 1.4S
Identification Number : UN0349
Label Codes : 1.4S



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OS I Caciai Negalations		
Small Arms Ammunition		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
	Delayed (chronic) health hazard	
	Fire Hazard	
	Sudden release of pressure hazard	

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 01/02/2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1

03/24/2020 EN (English US) 6/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aquatic Acute 2			
Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3 Carc. 2 Carcinogenicity Category 2 Comb. Dust Combustible Dust Expl. 1.1 Explosive Category 1.1 Expl. 1.4 Explosive Category 1.4 Expl. 1.4 Explosive Category 1.4 Expl. 1.5 Faxous eye damage/eye irritation Category 2A Flam. Sol. 1 Flammable solids Category 1 Flam. Sol. 1 Flammable solids Category 1 Flam. Sol. 1 Flammable solids Category 1 Skin sol. 1 Skin corrosion/irritation Category 1 Skin Sens. 1 Skin sensitization Category 1 Skin Sens. 1 Skin sensitization Category 1 Storo Re 1 Specific target organ toxicity (repeated exposure) Category 1 STOT Re 1 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (repeated exposure) Category 3 Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Explosive: mass explosion hazard Fire or projection hazard Fire or projection hazard Fire or projection hazard Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H310 Toxic if swallowed H310 Toxic if swallowed H311 Toxic in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H336 May cause respiratory irritation H337 May cause an allergic skin reaction M339 Fatal if inhaled H331 Toxic in inhaled H332 Harmful if inhaled H333 Harmful if inhaled H331 Toxic in inhaled H332 Causes serious eye irritation Fatal if inhaled H333 May cause respiratory irritation Very toxic to aquatic life H400 Very toxic to aquatic life with long lasting effects	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3 Carc. 2 Carcinogenicity Category 2 Comb. Dust Expl. 1.1 Expl. 1.2 Expl. 1.4 Explosive Category 1.1 Expl. 1.4 Explosive Category 1.4 Expl. 1.5 Expl. 1.5 Expl. 1.4 Explosive Category 1.4 Expl. 1.5 Expl. 1.5 Expl. 1.4 Explosive Category 1.4 Expl. 1.5 Expl. 1.5 Expl. 1.6 Expl. 1.7 Expl.	Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
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Skin Irrit. 2 Skin sens. 1 Skin sens. 1 Skin sens. 1 Skin sens. 1 Skin sensitization Category 2 Skin sens. 1 Specific target organ toxicity (repeated exposure) Category 1 STOT RE 1 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 2 STOT SE 3 Unst Expl Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Unstable explosives Unstable explosives H201 Explosive; mass explosion hazard Fire or projection hazard Fire or projection hazard Fire or projection hazard Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H333 Harmful if inhaled H331 Toxic if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H333 May cause respiratory irritation H351 Suspected of causing cancer M340 May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life	Flam. Sol. 1	Flammable solids Category 1	
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STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Unst. Expl Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Unstable explosives H201 Explosive; mass explosion hazard H204 Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects	Skin Sens. 1	Skin sensitization Category 1	
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 Unst. Expl Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Unstable explosives H201 Explosive; mass explosion hazard H204 Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life with long lasting effects	STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
Unst. Expl Unstable explosives Water-react. 2 Substances and mixtures which in contact with water emit flammable gases Category H200 Unstable explosives Explosive; mass explosion hazard H201 Explosive; mass explosion hazard H204 Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H3332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects Toxic to aquatic life with long lasting effects	STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
Water-react. 2Substances and mixtures which in contact with water emit flammable gases CategoryH200Unstable explosivesH201Explosive; mass explosion hazardH204Fire or projection hazardH228Flammable solidComb. DustMay form combustible dust concentrations in airH261In contact with water releases flammable gasesH300Fatal if swallowedH301Toxic if swallowedH302Harmful if swallowedH310Fatal in contact with skinH311Toxic in contact with skinH315Causes skin irritationH317May cause an allergic skin reactionH339Causes serious eye irritationH330Fatal if inhaledH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH351Suspected of causing cancerH360May damage fertility or the unborn childH372Causes damage to organs through prolonged or repeated exposureH373May cause damage to organs through prolonged or repeated exposureH400Very toxic to aquatic lifeH401Toxic to aquatic lifeH410Very toxic to aquatic life with long lasting effectsH411Toxic to aquatic life with long lasting effects	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H200 Unstable explosives H201 Explosive; mass explosion hazard H204 Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H333 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects	Unst. Expl	Unstable explosives	
H201 Explosive; mass explosion hazard H204 Fire or projection hazard Fire or projection hazard Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H310 In Contact with skin H311 Toxic to aquatic life with long lasting effects	Water-react. 2	Substances and mixtures which in contact with water emit flammable gases Category 2	
H204 Fire or projection hazard H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H316 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H500 Toxic to aquatic life with long lasting effects	H200	Unstable explosives	
H228 Flammable solid Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H201	Explosive; mass explosion hazard	
Comb. Dust May form combustible dust concentrations in air H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H204	Fire or projection hazard	
H261 In contact with water releases flammable gases H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects	H228	Flammable solid	
H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	Comb. Dust	May form combustible dust concentrations in air	
H301 Toxic if swallowed H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H261	In contact with water releases flammable gases	
H302 Harmful if swallowed H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H300	Fatal if swallowed	
H310 Fatal in contact with skin H311 Toxic in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H301	Toxic if swallowed	
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H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H310	Fatal in contact with skin	
H317 May cause an allergic skin reaction H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H311	Toxic in contact with skin	
H319 Causes serious eye irritation H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H315	Causes skin irritation	
H330 Fatal if inhaled H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H317	May cause an allergic skin reaction	
H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H319	Causes serious eye irritation	
H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H330	Fatal if inhaled	
H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H331	Toxic if inhaled	
H351 Suspected of causing cancer H360 May damage fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H332	Harmful if inhaled	
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H372 Causes damage to organs through prolonged or repeated exposure H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H351	Suspected of causing cancer	
H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H360	May damage fertility or the unborn child	
H400 Very toxic to aquatic life H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H372	Causes damage to organs through prolonged or repeated exposure	
H401 Toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H373	May cause damage to organs through prolonged or repeated exposure	
H410 Very toxic to aquatic life with long lasting effects H411 Toxic to aquatic life with long lasting effects	H400	Very toxic to aquatic life	
H411 Toxic to aquatic life with long lasting effects	H401	Toxic to aquatic life	
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H412 Harmful to aquatic life with long lasting effects	H411	Toxic to aquatic life with long lasting effects	
	H412	Harmful to aquatic life with long lasting effects	

Party Responsible for the Preparation of This Document

03/24/2020 EN (English US) 7/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Federal Cartridge Company 900 Ehlen Drive Anoka, MN 55303 1-800-635-7656

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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03/24/2020 EN (English US) 8/8