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# **Safety Data Sheet**

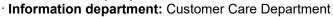
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: February 01, 2019 Revision: February 01, 2019

#### 1 Identification

- · Product identifier
- Trade name: Stinger® 32-Caliber Rubber Balls
  Stinger® 32-Caliber Rubber Balls w/Safety Clip
- Product code:
   1090 (1011582)
   1090SC (1152928) w/ Safety Clip
- · Recommended use and restriction on use
- · Recommended use: Explosive product.
- · Restrictions on use: Contact manufacturer/supplier
- Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

Safariland, LLC 13386 International Parkway Jacksonville, FL 32218 Customer Care (800) 347-1200





ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)



# 2 Hazard(s) identification

· Classification of the substance or mixture

Expl. 1.4 H204 Fire or projection hazard.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS01

- · Signal word: Warning
- Hazard statements:

H204 Fire or projection hazard.

· Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P250 Do not subject to grinding/shock/friction.

P372 Explosion risk in case of fire.

P373 DO NOT fight fire when fire reaches explosives.

P374 Fight fire with normal precautions from a reasonable distance.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· HMIS-ratings (scale 0 - 4) Warning: Contains lead salt(s). Long-term health hazard.

Other hazards

(Cont'd. on page 2)

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#### · Explosive Product Notice

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that they are dealing with a powerful force and that various devices and methods have been developed to assist them in directing this force. They should realize that this force, if misdirected, may either kill or injure both themself and their fellow workers.

WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, they should consult the manufacturer before use.

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

Component	ts:	
7778-74-7	Potassium perchlorate	20-40%
	🕸 Ox. Sol. 1, H271	- 7
	Acute Tox. 4, H302	
7429-90-5	Aluminium	20-40%
	♦ Pyr. Sol. 1, H250; Water-react. 2, H261	- ]
7439-95-4	magnesium powder (pyrophoric)	20-40%
	♦ Pyr. Sol. 1, H250; Water-react. 1, H260	- ]
7757-79-1	Potassium nitrate	5-10%
	🔷 Ox. Sol. 2, H272	_ ]
7440-50-8	Copper	1-5%
9004-34-6	cellulose	1-5%
7704-34-9	Sulfur	1-5%
	♦ Skin Irrit. 2, H315	- ]
592-87-0	lead dithiocyanate	0.1-1%
	🕸 Carc. 2, H351; Repr. 1A, H360; STOT RE 2, H373	-1
10294-40-3	barium chromate	0.1-1%
	🕸 Carc. 1A, H350	_ ]
	♦ Acute Tox. 4, H302; Acute Tox. 4, H332	
69012-64-2	Silica-amorphous silica fume	0.1-1%

· **Additional information:** For the wording of the listed Hazard Statements, refer to section 16.

7758-97-6 lead chromate & Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373

#### 4 First-aid measures

(Cont'd. on page 3)

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- Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Unlikely route of exposure.

Brush off loose particles from skin.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed: Blast injury if mishandled.
- · Danger: Danger of blast or crush-type injuries.
- · Indication of any immediate medical attention and special treatment needed:

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

## **5 Fire-fighting measures**

- Extinguishing media
- · Suitable extinguishing agents:

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

- For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Fire or projection hazard.

During heating or in case of fire poisonous gases are produced.

Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information:

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material
(Cont'd. on page 4)

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should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation.

Protect from heat.

Isolate area and prevent access.

- · Environmental precautions No special measures required.
- · Methods and material for containment and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- ·Handling
- · Precautions for safe handling: Handle with care. Avoid jolting, friction and impact.
- · Information about protection against explosions and fires:

Protect from heat.

Emergency cooling must be available in case of nearby fire.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

· **Specific end use(s)** No relevant information available.

#### 8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:		
7429-90-5 Aluminium		
PEL (USA)	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.	
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction	
EL (Canada)	Long-term value: 1.0 mg/m³  (Cont'd, on page 5)	

(Cont'd. on page 5)

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		(Cont'd. of pag
	respirable, as Al	
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	
LMPE (Mexico)	Long-term value: 1* mg/m³ A4, *fracciòn respirable	
7440-50-8 Cop	per	
PEL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
REL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
TLV (USA)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu	
EL (Canada)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0.2* 1** mg/m³ as copper, *fume;**dust and mists	
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m³ *humo (como Cu);**polvo y niebla (como Cu)	
9004-34-6 cellu	lose	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV (USA)	Long-term value: 10 mg/m³	
EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust, **respirable fraction	
EV (Canada)	Long-term value: 10 mg/m³ paper fibre, total dust	
LMPE (Mexico)	Long-term value: 10 mg/m³	
592-87-0 lead o	lithiocyanate	
PEL (USA)	Long-term value: 5 mg/m³ as CN; Skin	
EV (Canada)	Long-term value: 0.05 mg/m³ as Pb, Skin (organic compounds)	
10294-40-3 bar	ium chromate	
PEL (USA)	Long-term value: 0.005* mg/m³ Ceiling limit value: 0.1** mg/m³ *as Cr(VI) **as CrO3; see 29 CFR 1910.1026	
REL (USA)	Long-term value: 0.0002 mg/m³ as Cr; See Pocket Guide Apps. A and C	
TLV (USA)	Short-term value: 0.0005 mg/m³ Long-term value: 0.0002 mg/m³ as Cr; inhalable, DSEN, RSEN	

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	(Cont'd. of page 5)		
EL (Canada)	Long-term value: 0.01 mg/m³		
	as Cr; ACGIH A1, IARC 1; S(D), S(R)		
LMPE (Mexico)	Long-term value: 0.01 mg/m³		
	A1; como Cr		
69012-64-2 Sili	ca-amorphous silica fume		
TLV (USA)	TLV withdrawn		
EL (Canada)	Long-term value: 4* 1.5** mg/m³		
, ,	fume *total; **respirable		
EV (Canada)	Long-term value: 2 mg/m³		
	respirable		
LMPE (Mexico)	Long-term value: 2 mg/m³		
,	(j)		
Ingradiants wit			
	· Ingredients with biological limit values:		
10294-40-3 bar	10294-40-3 barium chromate		
BEI (USA) 25 µ			
	dium: urine		
Time: end of shift at end of workweek			
Parameter: Total chromium (fume)			
Medium: urine			

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Time: increase during shift

Parameter: Total chromium (fume)

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:

Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures

See Section 7 for additional information.

Organizational measures should be in place for all activities involving this product.

No relevant information available.

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9 Physical and chemical properties

Stinger® 32-Caliber Rubber Balls w/Safety Clip

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· Information on basic physical and chemical properties · Appearance:		
Form:	Solid metal container containing liquid and solid contents.	
Color:	According to product specification	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Heating may cause an explosion.	
· Explosion limits		

Not determined. Not determined.

Not applicable.

Contains oxidizing agent.

· Vapor pressure:

· Oxidizing properties:

Density: Not determined.
 Relative density: Not determined.
 Vapor density: Not applicable.
 Evaporation rate: Not applicable.

· Solubility in / Miscibility with Water:

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

Lower:

Upper:

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

• Other information No relevant information available.

# 10 Stability and reactivity

- · **Reactivity:** No relevant information available.
- · Chemical stability:
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Danger of explosion.

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Toxic fumes may be released if heated above the decomposition point.

Reacts with strong acids and alkali.

Reacts violently with oxidizing agents.

- · Conditions to avoid Sources of ignition, open flame, incompatible materials.
- · Incompatible materials Oxidizers
- · Hazardous decomposition products

Carbon monoxide and carbon dioxide

Nitrogen oxides Sulfur oxides (SOx)

# 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin:

Based on available data, the classification criteria are not met.

Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.

· On the eve:

Based on available data, the classification criteria are not met.

Not an eye irritant in unused form. Vapours/particles from used product are possibly irritating to eyes.

· Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):			
592-87-0	lead dithiocyanate	2B	
10294-40-3	barium chromate	1	
	· NTP (National Toxicology Program):		
592-87-0	lead dithiocyanate	R	
10294-40-3	barium chromate	K	
· OSHA-Ca (0	· OSHA-Ca (Occupational Safety & Health Administration):		
None of the ingredients are listed.			

#### Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Danger of blast or crush-type injuries.
- · Repeated dose toxicity: No relevant information available.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

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# 12 Ecological information

- ·Toxicity
- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- · Bioaccumulative potential: May be accumulated in organism
- · Mobility in soil: No relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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 treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN0452	
· UN proper shipping name		
· DOT, IMDG, IATA	GRENADES, PRACTICE	
· ADR/RID/ADN	0452, GRENADES, PRACTICE	
		(Cont'd. on page 10

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Transport hazard class(es)

· DOT



· Class 1.4 · Label 1.4G

· ADR/RID/ADN, IMDG, IATA



· Class 1.4 · Label 1.4G

· Packing group

· DOT, ADR/RID/ADN, IMDG, IATA

• Environmental hazards Not applicable.

· Special precautions for user Not applicable. • EMS Number: F-A.S-Q

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations On cargo aircraft only: 75 kg

# 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA

· Section 302 (extreme	ly hazardοι	ıs subs	tances):
------------------------	-------------	---------	----------

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7429-90-5 Aluminium

7757-79-1 Potassium nitrate

7440-50-8 Copper

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7440.00.01		(Cont'd. of page 10)	
7440-66-6 zinc metal			
,	· TSCA (Toxic Substances Control Act)		
All ingredien	All ingredients are listed.		
	· Proposition 65 (California)		
· Chemicals known to cause cancer:			
	lead dithiocyanate		
	barium chromate		
7758-97-6	lead chromate		
Chemicals known to cause developmental toxicity for females:			
	0294-40-3 barium chromate		
7758-97-6	lead chromate		
	known to cause developmental toxicity for males:		
	0-3 barium chromate		
7758-97-6	3-97-6 lead chromate		
· Chemicals	known to cause developmental toxicity:		
10294-40-3	barium chromate		
7758-97-6	7758-97-6 lead chromate		
•	onmental Protection Agency):		
	Potassium perchlorate	NL	
7440-50-8	· · ·	D	
7440-66-6		D, I, II	
10294-40-3	barium chromate	A(inh), D(oral), K/L(inh), CBD(oral)	
IARC (International Agency for Research on Cancer):			
10294-40-3	10294-40-3 barium chromate 1		
69012-64-2 Silica-amorphous silica fume 3			
· Canadian Domestic Substances List (DSL) (Substances not listed.):			
All ingredients listed on DSL or NDSL.			

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

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OSHA: Occupational Safety & Health Administration

Expl. 1.4: Explosives - Division 1.4

Pyr. Sol. 1: Pyrophoric solids – Category 1
Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases - Category 2

Ox. Sol. 1: Oxidizing solids – Category 1
Ox. Sol. 2: Oxidizing solids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 1A: Carcinogenicity – Category 1A Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity - Category 1A

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

#### Sources

SDS Prepared by:

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