

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Pest control devices
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Reed-Joseph International Company
PO Box 894
Greenville, MS 38702 USA
(662) 335-5822
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS01 exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36: Irritating to eyes.



E; Explosive

R2: Risk of explosion by shock, friction, fire or other sources of ignition.

R44: Risk of explosion if heated under confinement.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 1)

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS01 GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

potassium perchlorate

potassium nitrate

· **Hazard statements**

H204-EUH044 Fire or projection hazard. Risk of explosion if heated under confinement.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Keep out of the reach of children

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P240 Ground/bond container and receiving equipment.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P373 DO NOT fight fire when fire reaches explosives.

P370+P380 In case of fire: Evacuate area.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P372 Explosion risk in case of fire.

P337+P313 If eye irritation persists: Get medical advice/attention.

P330 Rinse mouth.

P401 Store in accordance with local/regional/national/international regulations.

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

· **Hazard description:**

· **WHMIS-symbols:**

D2B - Toxic material causing other toxic effects

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 2)

F - Dangerously reactive material



· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **HMIS Long Term Health Hazard Substances**

7778-74-7 | potassium perchlorate

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7778-74-7 EINECS: 231-912-9 Index number: 017-008-00-5	potassium perchlorate Xn R22; O R9 Ox. Sol. 1, H271 Acute Tox. 4, H302	25-50%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate O R8 Ox. Sol. 2, H272	25-50%
CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1	sulfur Xi R38 Skin Irrit. 2, H315	<10%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	<10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 3)

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Take affected persons out into the fresh air.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Clean with water and soap.

If skin irritation continues, 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:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** Blast injury if mishandled.

· **Hazards** Danger of blast or crush-type injuries.

· 4.3 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 Firefighting measures

· 5.1 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.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

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.

6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Isolate area and prevent access.

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 4)

- Remove persons from danger area.
- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation
- Protect from heat.
- Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Pick up mechanically.
 - Send for recovery or disposal in suitable receptacles.
- **6.4 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

- **7.1 Precautions for safe handling**
 - Open and handle receptacle with care.
 - Prevent formation of dust.
- **Information about fire - and explosion protection:**
 - Prevent impact and friction.
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - Emergency cooling must be available in case of nearby fire.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Protect from humidity and water.
 - Store in a cool location.
 - 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.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 5)

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1333-86-4 Carbon black

PEL (USA)	3,5 mg/m ³
REL (USA)	3,5* mg/m ³ *0,1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	3* mg/m ³ *inhalable fraction
EL (Canada)	3 mg/m ³ IARC 2B
EV (Canada)	3,5 mg/m ³

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when high concentrations are present.

· Protection of hands: Not required for handling under normal conditions.

· Material of gloves Not required.

· Eye protection:

Contact lenses should not be worn.



Safety glasses

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information.
No further relevant information available.

(Contd. on page 7)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 6)

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Solid material
Colour:	According to product specification
Odour:	Odourless
Odour threshold:	Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Flammable.
Contact with combustible material may cause fire.
Statement refers to device contents only.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Risk of explosion by shock, friction, fire or other sources of ignition.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Oxidizing properties: Contains oxidizing agent.

· Vapour pressure: Not applicable.

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Insoluble.

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

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

· Solvent content:

Organic solvents: Not determined.

Solids content: 100,0 %

(Contd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 7)

· **9.2 Other information**

No further relevant information available.

10 Stability and reactivity

· **10.1 Reactivity**· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions**

Strong exothermic reaction with acids.

Contact with acids releases toxic gases.

Reacts with flammable substances.

Reacts with peroxides and other radical forming substances.

Reacts with numerous chemical compounds, especially those with mobile hydrogen atoms.

· **10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

Cartridge may detonate if case is punctured or severely damaged.

· **10.5 Incompatible materials:** Contact with acids liberates toxic gases.· **10.6 Hazardous decomposition products:**

Hydrogen chloride (HCl)

Chlorine

Hydrocarbons

Sulphur oxides (SO_x)

Nitrogen oxides

Carbon monoxide and carbon dioxide

11 Toxicological information

· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:****65-85-0 Benzoic acid**

Oral LD50 1700 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

(Contd. on page 9)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 8)

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** Moderately/partly removable from water
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed 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.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---------------------------------------|--|
| · 14.1 UN-Number | |
| · DOT | NA0471 |
| · ADR, IMDG, IATA | UN0471 |
| · 14.2 UN proper shipping name | |
| · DOT, IMDG, IATA | Articles, explosive, n.o.s. (Bird scaring cartridges) |
| · ADR | 0471 Articles, explosive, n.o.s. (Bird scaring cartridges) |

(Contd. on page 10)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 9)

· **14.3 Transport hazard class(es)**

· **DOT, ADR, IMDG**



· **Class** 1.4
 · **Label** 1.4E

· **IATA**



· **Class** 1.4E
 · **Label** 1.4E

· **14.4 Packing group**

· **DOT, ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Warning: Explosives

· **EMS Number:**

F-A,S-Q

· **Segregation groups**

Perchlorates

· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

Note: This classification is only valid when the explosive articles are packaged as follows: Inner Packaging - Trays, expanded plastic, each containing not more than ten (10) pyrotechnic articles. Intermediate Packaging - Receptacles, fiberboard, each containing not more than five (5) layers of inner packagings separated with not less than 2 mm thickness of fiberboard sheeting. Outer Packaging - Specification 4G fiberboard box, each containing not more than twenty (20) intermediate packagings which are separated from one another with cardboard dividers not less than 5 mm in thickness.
 DOT Reference Number: EX2002060168

· **ADR**

· **Tunnel restriction code** E

· **UN "Model Regulation":** UN0471, 0471, 1.4E, II

(Contd. on page 11)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 10)

15 Regulatory information

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

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

7429-90-5 | aluminium powder (pyrophoric)

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

References to chemical components listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

7778-74-7 | potassium perchlorate

NL

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

7429-90-5 | aluminium powder (pyrophoric)

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

7429-90-5 | aluminium powder (pyrophoric)

(Contd. on page 12)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 04.01.2013

Revision: 04.01.2013

Trade name: 15 mm Bird Banger EXP Cartridges with Blank Primers

(Contd. of page 11)

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Relevant phrases**

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

R22 Harmful if swallowed.

R38 Irritating to skin.

R8 Contact with combustible material may cause fire.

R9 Explosive when mixed with combustible material.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com