

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

1 Identification

- **Product identifier**
- **Trade name: 40mm BIP Collapsible Gel Round**
- **Product code:** 6425 (1201609)
- **Recommended use and restriction on use**
- **Recommended use:** Explosive product.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **Information department:** Customer Care Department
- **Emergency telephone number:**
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.
- **Additional information:**
There are no other hazards not otherwise classified that have been identified.
0 % of the mixture consists of component(s) of unknown toxicity.

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.
P401 Store in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Cont'd. on page 2)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 1)

· NFPA ratings (scale 0 - 4)

 Health = 1
 Fire = 0
 Reactivity = 3

· HMIS-ratings (scale 0 - 4)

Warning: Contains lead salt(s). Long-term health hazard.


 HEALTH 0 Health = 0
 FIRE 0 Fire = 0
 REACTIVITY 3 Reactivity = 3

* - Indicates a long term health hazard from repeated or prolonged exposures.

· Other hazards
· 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 themselves 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
· Components:

9004-70-0	Nitrocellulose, colloided, granular ⚠ Expl. 1.1, H201	60-80%
7439-89-6	iron	5-10%
85-98-3	1,3-diethyldiphenylurea ⚠ Acute Tox. 4, H302	5-10%
7440-50-8	copper	1-5%
122-39-4	diphenylamine ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ STOT RE 2, H373	1-5%
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate ⚠ Unst. Expl., H200 ⚠ Repr. 1A, H360; STOT RE 2, H373 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<1.0%

(Cont'd. on page 3)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 2)

10022-31-8	barium nitrate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<1.0%
1345-04-6	antimony sulphide	<1.0%

Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

· **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:**

DO NOT fight fire when fire reaches explosives.

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.

(Cont'd. on page 4)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 3)

Cool endangered receptacles with water spray.

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 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**

· Storage

· **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.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

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

(Cont'd. on page 5)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 4)

8 Exposure controls/personal protection

· Control parameters

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

7439-89-6 iron

EV (Canada)	Long-term value: 1* 5** mg/m ³ as iron; *salts, water-soluble; **welding fume
LMPE (Mexico)	Long-term value: 1 mg/m ³

7440-50-8 copper

PEL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume, as Cu
EV (Canada)	Long-term value: 0.2* 1** mg/m ³ as copper, *fume; **dust and mists
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m ³ *humo (como Cu); **polvo y niebla (como Cu)

122-39-4 diphenylamine

REL (USA)	Long-term value: 10 mg/m ³
TLV (USA)	Long-term value: 10 mg/m ³
EL (Canada)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 10 mg/m ³
LMPE (Mexico)	Long-term value: 10 mg/m ³ A4

15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

EV (Canada)	Long-term value: 0.05 mg/m ³ as Pb, Skin (organic compounds)
-------------	--

10022-31-8 barium nitrate

PEL (USA)	Long-term value: 0.5 mg/m ³ as Ba
REL (USA)	Long-term value: 0.5 mg/m ³ as Ba
TLV (USA)	Long-term value: 0.5 mg/m ³ as Ba
EL (Canada)	Long-term value: 0.5 mg/m ³ as Ba
LMPE (Mexico)	Long-term value: 0.5 mg/m ³ A4; como Ba

(Cont'd. on page 6)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 5)

1345-04-6 antimony sulphide

PEL (USA)	Long-term value: 0.5 mg/m ³ as Sb
REL (USA)	Long-term value: 0.5 mg/m ³ as Sb
TLV (USA)	Long-term value: 0.5 mg/m ³ as Sb
EL (Canada)	Long-term value: 0.5 mg/m ³ as Sb
LMPE (Mexico)	Long-term value: 0.5 mg/m ³ como Sb

- **Exposure controls**

- **Personal protective equipment:**

- **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.

- **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.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **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.

(Cont'd. on page 7)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

No relevant information available.

(Cont'd. of page 6)

9 Physical and chemical properties

· 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

Lower:

Not determined.

Upper:

Not determined.

· Vapor pressure:

Not applicable.

· Density:

Not determined.

· Relative density:

Not determined.

· Vapor 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.

· 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.

(Cont'd. on page 8)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 7)

· **Possibility of hazardous reactions**

Fire or projection hazard.

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 (SO_x)

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

122-39-4 diphenylamine

Oral	LD50	1120 mg/kg (rat)
------	------	------------------

15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

Oral	LD50	650 mg/kg (rat)
------	------	-----------------

· **Primary irritant effect:**

· **On the skin:** Based on available data, the classification criteria are not met.

· **On the eye:** Based on available data, the classification criteria are not met.

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

· **IARC (International Agency for Research on Cancer):**

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	2B
------------	---	----

· **NTP (National Toxicology Program):**

15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate	R
------------	---	---

· **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.

(Cont'd. on page 9)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 8)

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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.
- **Ecotoxicological 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.
 - 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, IMDG, IATA** UN0012

(Cont'd. on page 10)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 9)

<ul style="list-style-type: none"> · UN proper shipping name · DOT, IATA · ADR · IMDG 	CARTRIDGES FOR WEAPONS, INERT PROJECTILE CARTRIDGES, INERT PROJECTILE CARTRIDGES, SMALL ARMS
---	--

· **Transport hazard class(es)**

· **DOT**



<ul style="list-style-type: none"> · Class · Label 	1.4 1.4S
--	-------------

· **ADR, IMDG, IATA**



<ul style="list-style-type: none"> · Class · Label 	1.4 1.4S
--	-------------

· **Packing group**

<ul style="list-style-type: none"> · DOT, ADR, IMDG, IATA 	II
---	----

· **Environmental hazards**

<ul style="list-style-type: none"> · Marine pollutant: 	No
--	----

· **Special precautions for user**

<ul style="list-style-type: none"> · EMS Number: · Segregation groups 	Not applicable. F-A,S-Q Heavy metals and their salts (including their organometallic compounds)
---	---

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

Not applicable.

· **Transport/Additional information:**

· **DOT**

<ul style="list-style-type: none"> · Quantity limitations 	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
---	---

· **ADR**

<ul style="list-style-type: none"> · Excepted quantities (EQ) 	Code: E0 Not permitted as Excepted Quantity
---	--

· **IMDG**

<ul style="list-style-type: none"> · Excepted quantities (EQ) 	Code: E0 Not permitted as Excepted Quantity
---	--

(Cont'd. on page 11)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 10)

15 Regulatory information

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

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

7440-50-8 | copper

122-39-4 | diphenylamine

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide/ lead styphnate

· **Carcinogenic categories**· **EPA (Environmental Protection Agency):**

7440-50-8 | copper

D

7440-66-6 | zinc metal

D, I, II

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

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

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

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.

- **Date of preparation / last revision** August 30, 2017 / -

(Cont'd. on page 12)

Safety Data Sheet

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

Printing date: August 30, 2017

Revision: August 30, 2017

Trade name: 40mm BIP Collapsible Gel Round

(Cont'd. of page 11)

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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxique
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
Expl. 1.1: Explosives – Division 1.1
Expl. 1.4: Explosives – Division 1.4
Unst. Expl.: Explosives – Unstable explosive
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Repr. 1A: Reproductive toxicity – Category 1A
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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