

Safety Data Sheet

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

Printing date: December 13, 2013

Revision: December 13, 2013

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

- **1.1 Product identifier**
- **Trade name:** Command Initiated Adapter Assembly
- **Article number:**
1600
Consists of main body and remote cord.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Explosive product.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **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.

Ox. Sol. 2 H272 May intensify fire; oxidiser.

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



O; Oxidising

R8: Contact with combustible material may cause fire.

R5: Heating may cause an explosion.

- **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.

- **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.

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- **Hazard pictograms**



GHS01

- **Signal word** Danger

- **Hazard statements**

H204 Fire or projection hazard.

H272 May intensify fire; oxidiser.

- **Precautionary statements**

P221 Take any precaution to avoid mixing with combustibles.

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

P250 Do not subject to grinding/shock/friction.

P280 Wear protective gloves / eye protection.

P373 DO NOT fight fire when fire reaches explosives.

P372 Explosion risk in case of fire.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

- **Additional information:**

Can become highly flammable in use.

- **Hazard description:**

- **WHMIS-symbols:**

F - Dangerously reactive material



- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 3

Reactivity = 3

This substance possesses oxidizing properties.

- **HMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 3

Reactivity = 3

- **HMIS Long Term Health Hazard Substances**

None of the ingredients is listed.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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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 he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his 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, he should consult the manufacturer before use.

3 Composition/information on ingredients

· **3.2 Mixtures**









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

· **Dangerous components:**

CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate  O R8  Ox. Sol. 2, H272	25-50%
CAS: 7440-21-3 EINECS: 231-130-8	silicon substance with a Community workplace exposure limit  Flam. Sol. 2, H228	25-50%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular  E R1-3  Unst. Expl., H200	10-25%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium powder (pyrophoric)  F R15-17  Pyr. Sol. 1, H250; Water-react. 2, H261	< 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.

· **Notable Trace Components (≤ 0,1% w/w)**

CAS: 15245-44-0 EINECS: 239-290-0 Index number: 609-019-00-4	lead 2,4,6-trinitro-m-phenylene dioxide  T Repr. Cat. 1, 3 R61;  Xn R62-20/22;  E R3;  N R50/53 R33  Unst. Expl., H200  Repr. 1A, H360Df; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Acute Tox. 4, H332
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4 First aid measures

- **4.1 Description of first aid measures**

- **General information:**

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:**

Brush off loose particles from skin.

Do not pull solidified product off the skin.

Immediately immerse in or flush with cool water to dissipate heat.

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:**

Unlikely route of exposure.

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.

Methaemoglobinaemia

Dilation of pupils

Headache

Dizziness

- **Hazards**

Danger of blast or crush-type injuries.

Danger of disturbed cardiac rhythm.

Danger of circulatory collapse.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Contains nitrates. Consult literature for specific antidotes.

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**

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

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

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- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information**

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Eliminate all ignition sources if safe to do so.

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

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Isolate area and prevent access.

- **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**

Handle with care. Avoid jolting, friction and impact.

Open and handle receptacle with care.

- **Information about fire - and explosion protection:**

Protect from heat.

Emergency cooling must be available in case of nearby fire.

Protect against electrostatic charges.

Prevent impact and friction.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

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

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- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
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.
- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

7440-21-3 silicon

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) TLV withdrawn

EL (Canada) Long-term value: 10 mg/m³

EV (Canada) Long-term value: 10 mg/m³
total dust

7429-90-5 aluminium powder (pyrophoric)

PEL (USA) Long-term value: 15*; 15** mg/m³
*Total dust; ** Respirable fraction

REL (USA) Long-term value: 10* 5** mg/m³
*Total dust **Respirable fraction

TLV (USA) Long-term value: 1* mg/m³
as Al; *as respirable fraction

EL (Canada) Long-term value: 1,0 mg/m³
metal and insoluble compounds, respirable

EV (Canada) Long-term value: 5 mg/m³
aluminium-containing (as aluminium)

1333-86-4 Carbon black

PEL (USA) Long-term value: 3,5 mg/m³

REL (USA) Long-term value: 3,5* mg/m³
*0,1 in presence of PAHs; See Pocket Guide Apps.A+C

TLV (USA) Long-term value: 3* mg/m³
*inhalable fraction

EL (Canada) Long-term value: 3 mg/m³
IARC 2B

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EV (Canada)	Long-term value: 3,5 mg/m ³
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- **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:**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
Do not inhale dust / smoke / mist.
- **Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device when high concentrations are present.
NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**
Not required under normal conditions of use.
Wear protective gloves to handle contents of damaged or leaking units.
- **Eye protection:**



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.
Organizational measures should be in place for all activities involving this product.
No further relevant information available.

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:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not applicable.
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Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

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· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Contact with combustible material may cause fire.
· 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: Upper:	Not determined. Not determined.
· Oxidizing properties	Oxidizer
· Vapour pressure:	Not applicable.
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not determined. Not applicable. Not applicable.
· Solubility in / Miscibility with water:	Partly miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· 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.
Explosive thermal decomposition.
- **10.3 Possibility of hazardous reactions**
Danger of explosion.
Acts as an oxidizing agent on organic materials such as wood, paper and fats.
Reacts with reducing agents.
Contact with acids releases toxic gases.
- **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.

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- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Normal handling of the undeployed product poses little or no health hazards, One should avoid inhalation by wearing appropriate respiratory protection when exposed to the chemical ingredients of the product above listed TLV's or when exposed to the post ignition by-products. This product is a solid material which contains the various components within a metal shell. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is used, particles may be generated which may be irritating to the eyes and the respiratory tract.

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
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.
Hand over to hazardous waste disposers.
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

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hazardous.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|---|
| · 14.1 UN-Number | |
| · DOT, ADR, IMDG, IATA | UN0368 |
| · 14.2 UN proper shipping name | |
| · DOT, IMDG, IATA | Fuzes, Igniting |
| · ADR | 0368 Fuzes, Igniting |
| · 14.3 Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| |  |
| · Class | 1.4 |
| · Label | 1.4S |
| · 14.4 Packing group | |
| · DOT, ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · EMS Number: | F-A,S-Q |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | UN0368, 0368, 1.4S, II |

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)

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

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

1333-86-4 Carbon black

· **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:**

Present in trace quantities.

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

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

1333-86-4 Carbon black

2B

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

7429-90-5 aluminium powder (pyrophoric)

A4

1333-86-4 Carbon black

A4

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

1333-86-4 Carbon black

· **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)

1333-86-4 Carbon black

· **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.

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Relevant phrases

- H200 Unstable explosives.
- H228 Flammable solid.
- H250 Catches fire spontaneously if exposed to air.
- H261 In contact with water releases flammable gases.
- H272 May intensify fire; oxidiser.

- R1 Explosive when dry.
- R15 Contact with water liberates extremely flammable gases.
- R17 Spontaneously flammable in air.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R8 Contact with combustible material may cause fire.

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
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)

Sources

- SDS Prepared by:
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