| CECTION 1-1 ROBOO | I AND COMPANY IDENTIFICATION | | | | |
|---|---|--|--|--|--|
| PRODUCT NAME: 40mm Skat-Shell Round PRODUCT NUMBER: 6171 | CN DATE: March 11, 2010 | | | | |
| TRADE NAME: 40mm Skat-Shell Round CN | | | | | |
| GENERAL USE: Crowd Control | | | | | |
| CHEMICAL FAMILY Incendiary + CN agent | | | | | |
| PRODUCT DESCRIPTION: | | | | | |
| Canister containing fine powder - irritating contents . | DEFENSE TECHNOLOGY | | | | |
| (Explosive Device) | | | | | |
| MANUFACTURED FOR: | DATE PREPARED: March 11, 2010 | | | | |
| Safariland L.L.C. | SUPERSEDES: July 31, 2008 | | | | |
| ADDRESS (NUMBER, STREET, P.O. BOX) | TELEPHONE NUMBER FOR INFORMATION / Customer Service | | | | |
| 13386 International Parkway | 904-741-5400 | | | | |
| (CITY, STATE AND ZIP CODE) COUNTRY | CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER | | | | |
| Jacksonville, FL 32218 USA | ChemTel North America Toll Free International | | | | |
| | IAZARDS IDENTIFICATION | | | | |
| EMERGENCY OVERVIEW | | | | | |
| • | T BURN RATE) PRODUCT. KEEP AWAY FROM HEAT. DO | | | | |
| | CAL SHOCK. EXPLODING CARTRIDGES MAY EJECT | | | | |
| | FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT | | | | |
| TAKE INTERNALLY. COMPONENTS MAY HARI | M ENVIRONMENT. | | | | |
| Individual cartridges may ignite if the primer is stru | ick or if the cartridge is exposed to excess heat. Oxides of | | | | |
| | ÷ . | | | | |
| • • | Nitrogen, Carbon, and Sulfur. Lead and Antimony fumes may | | | | |
| also be produced on thermal decomposition. | | | | | |
| POTENTIAL HEALTH EFFECTS | | | | | |
| | | | | | |
| Both pre and post ignition ingredients are hazardous and cap zinc, lead, antimony in the product. While normal handling of inhalation by wearing appropriate respiratory protection when when exposed to the post ignition by-products. This product completely sealed within. Therefore, under normal handling of | pable of producing long term health effects due primarily to the presence of f the undetonated product poses little or no health hazards, one should avoid n exposed to the chemical ingredients of the product above listed TLV's or is a finished cartridge or canister which contains the various components of this product, no exposure to any harmful materials will occur. When the lightly irritating to the eyes and the respiratory tract. The particles may | | | | |
| Lead: Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function. It is unlikely that the amount of particles that someone would be exposed to from firing a loaded round would be sufficient to cause any of these effects. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead compounds in the primer can aggravate anemia, cardiovascular and respiratory disease. | | | | | |
| INHALATION: | | | | | |
| Detonated device emits irritant vapors. | | | | | |
| | contact with the skin or if vapors from detonated device contact skin. | | | | |
| EYES: | | | | | |
| Eye irritant-if contents of device come in contact with eyes, e | either pre-detonation or post-detonation | | | | |
| INGESTION: | | | | | |
| Toxic substance. Product will cause irritation to gastro-intestinal tract. | | | | | |
| NTP? Yes-Lead cpds. IARC MONOGRAPHS? | Yes-Lead products (2B) OSHA REGULATED? Yes-Lead | | | | |
| CALIFORNIA, Prop.65? Yes, Lead compounds and Antim use of product | ony trioxide formed during ESIS NOTATION? Yes | | | | |

| PRODUCT NAME: | 40mm Skat-Sl | nell Round CN | | | |
|-----------------------|----------------------|-------------------------|-------------------------------|------------------|---|
| PRODUCT NUMBER: | 6171 | | DATE: | М | arch 11, 2010 |
| | SECTI | ON 3 - HAZARDO | US INGREDIENTS | | |
| Powder | Charge- Product | will contain 1 or more | of the following hazardous c | omponent | S |
| Hazardous Components | % (by Weight) | CAS # | EINECS # | Hazard Symbol | RISK PHRASES (Full Text Section 15) |
| Potassium perchlorate | NR | 7778-74-7 | 231-912-9 | Xn, O | R9, R22 |
| Potassium nitrate | NR | 7757-79-1 | 231-818-8 | Xn, O | R8, R36/37/38 |
| Sulfur | 100 | 7704-34-9 | 231-722-6 | F, Xi | R11, 36/37/38 |
| Charcoal | NR | 16291-96-6 | 240-383-3 | None | None |
| Rosin | NR | 8050-09-7 | 232-475-7 | Xi | R43 |
| Graphite | NR | 7782-42-5 | 231-955-3 | None | None |
| Prin | ner - Product will o | contain 1 or more of th | e following hazardous comp | onents | |
| Normal Lead styphnate | NR | 15245-44-0 | 239-290-0 | E,T,N | R3, R20/22, R33, R50/53, R61, R62 |
| Basic Lead styphnate | NR | 12403-82-6 | 235-642-2 | E,T,N | R3, R20/22, R33, R50/53, R61, R62 |
| Lead Azide | NR | 13424-46-9 | 236-542-1 | E,T,N | R3, R20/22, R33, R50/53, R61, R62 |
| Lead Thiocyanate | NR | 592-87-0 | 209-774-6 | Т | R23/24/25 |
| Nitrocellulose | NR | 9004-70-0 | NR | E,F | R1, R2, R5 ,R11 |
| Tetracene | NR | 109-27-3 | 203-659-4 | ш | R3, R5, R20/22 |
| Potassium chlorate | NR | 3811-04-9 | 223-289-7 | Xn, O | R9, R20/22 |
| Potassium nitrate | NR | 7757-79-1 | 231-818-8 | Xn, O | R8, R36/37/38 |
| Barium nitrate | NR | 10022-31-8 | 233-020-5 | Τ, Ο | R8, R23/24/25 |
| Antimony Sulfide | NR | 1345-04-6 | 231-146-5 | Xn, N | R20/22, R51/53 |
| Zinc | NR | 7440-66-6 | 231-175-3 | N | R17, 50/53 |
| Remainder | of Product - Produ | ict will contain 1 or m | ore of the following hazardou | is compon | ents |
| Chloroacetophenone | NR | 532-27-4 | 208-531-1 | т | R23/25,R28,R34 |
| Magnesium Oxide | NR | 1309-48-4 | 215-171-9 | None | None |
| Fumed Silica | NR | 7631-86-9 | 231-545-4 | None | None |
| Tin | NR | 7440-31-5 | 231-141-8 | F, Xi | R11, R36/37/38 |
| Zinc | NR | 7440-66-6 | 231-175-3 | N | R17, 50/53 |
| Chromium | NR | 7440-47-3 | 231-157-5 | None | None |
| Copper | NR | 7440-50-8 | 231-159-6 | None | None |
| Iron | NR | 7439-89-6 | 231-096-4 | None | None |
| Aluminum | NR | 7429-90-5 | 231-072-3 | F | R15,R17 |

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006 (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 1907/2006 and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

| PRODUCT NAME: | 40mm Skat-Shell Round CN | | | |
|---|---|---------------------------------------|----------------|-----------------------------|
| PRODUCT NUMBER: | 6171 | DA | ATE: | March 11, 2010 |
| | SECTION 4 - FIRST A | NID MEASURES | | |
| INHALATION: | | | | |
| | occur (coughing, wheezing or breathing on artificial respiration. Keep affected perso | | | |
| EYES: | | | | |
| Remove contact lenses, then attention if irritation persists. | wash for 15 minutes with clean potable wa | ter lifting upper and lower l | lids occasic | onally. Seek medical |
| SKIN: | | | | |
| Wash with plenty of soap and medical treatment may be need | water. Seek medical attention if delayed d ded for thermal burns. | ermatitis develops. For cor | ntact with b | urning (ignited) particles, |
| INGESTION: | | | | |
| occurs naturally, have victim le | immediately. Do not induce vomiting use an forward to avoid aspiration of regurgita ediate medical assistance. Never give any | ant. Give 1-2 glasses of wa | ter to victim | if victim is conscious and |
| | SECTION 5 - FIRE FIGH | ITING MEASURES | | |
| GENERAL HAZARDS: | | | | |
| randomly explode. Will not ma | efined by 29 CFR 1910.1200) Explosive. (ss explode if multiple devices are involved exploding devices under containment. See | I. Burning material may pro | duce toxic | and irritating vapors. |
| EXTINGUISHING MEDIA: | | | | |
| Flood area with water. If no waand let fire burn. | ater is available, carbon dioxide, dry chem | ical or earth may be used. | If the fire re | aches the cargo, withdraw |
| FIRE FIGHTING PROCEDUR | ES: | | | |
| | fighting equipment. Protection concerns n rantine area for at least 1500 feet from fire | | ntial of the p | physical characteristic of |
| UNUSUAL FIRE AND EXPLC | SION HAZARDS: | | | |
| If fire reaches cargo, do not fig area for 1500 feet (1/3 mile) ir | ht; withdraw personnel to safe distance. I all directions. | Evacuate all persons, inclue | ding emerg | ency responders from the |
| HAZARDOUS COMBUSTION | PRODUCTS: | | | |
| Metal Compounds, Carbon Me | onoxide, Carbon Dioxide, Nitrous Oxides, ' | Various complex oxides of | metals, Niti | rogen. |
| SECTION 6 - ACCIDENTAL RELEASE MEASURES | | | | |
| STEPS TO BE TAKEN IN CA | SE MATERIAL IS RELEASED OR SPILLE | D: | | |
| 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. | | | | |
| | SECTION 7 - HANDLING | G AND STORAGE | | |
| PRECAUTIONS TO BE TAKE | N IN HANDLING AND STORAGE: | | | |
| STORAGE: Avoid storage nea Shelf Life Limitations: Not kno Incompatible Materials for Pac Incompatible Materials for Sto | | ame. losives, strong oxidizers, ar | | |
| <u>.</u> | | | | |

| PRODUCT NAME: PRODUCT NUMBER: | 40mm Skat-Shell Round CN 6171 DATE: March 11, 2010 | | | |
|----------------------------------|---|--|---|--|
| SECT | ION 8-EXPO | SURE CONTROLS/PERSONA | L PROTECTION | |
| Hazardous Components | CAS # | ACGIH Exposure Limits | OSHA Exposure Limits | |
| Charcoal | 7782-42-5 | 2 mg/m3 | 2.5 mg/m3 (respirable dust) | |
| Chloroacetophenone | 532-27-4 | 0.3mg/m3 | 0.3mg/m3 | |
| Copper | 7440-50-8 | 0.2mg/m3 (fume), 1mg/m3 (dusts and mists) | 0.1mg/m3 (fume) 1mg/m3 (dusts & mists) | |
| Additional components on next pa | age. | | | |
| SECTION 8 | - EXPOSURI | E CONTROLS/PERSONAL PRO | OTECTION Continued | |
| Hazardous Components | CAS # | ACGIH Exposure Limits | OSHA Exposure Limits | |
| Ethyl Acetate | 141-78-6 | 400 ppm (1400 mg/m3) | 400 ppm (1400 mg/m3) | |
| Glass Powder | 65997-17-3 | 10 mg/m3 (particulate) | 15 mg/m3 | |
| Graphite | 7782-42-5 | 2 mg/m3 | 2.5 mg/m3 (respirable dust) | |
| Lead | 7439-92-1 | 0.05mg/m3 (Ceiling) | 0.05mg/m3 (Ceiling) | |
| Manganese | 7439-96-5 | 0.2 mg/m3 | 5 mg/m3 (Ceiling) | |
| Nickel | 7440-02-0 | 1.5 mg/m3 (inhalable) | 1 mg/m3 | |
| Graphite | 7782-42-5 | 2 mg/m3 (respirable) | NE | |
| Nickel | 7440-02-0 | 1.5 (respirable) | 1 | |
| Potassium nitrate | 7757-79-1 | NE | NE | |
| Potassium perchlorate | 7778-74-7 | NE | NE | |
| Silica, Fumed | 7631-86-9 | 6 mg/m3 (NIOSH) | 80 mg/m3 | |
| Silicon | 7440-21-3 | 10 mg/m3 | 15 mg/m3 | |
| Sulfur | 7704-34-9 | 15 mg/m3 | 15 mg/m3 | |
| Tin | 7440-31-5 | 2 mg/m3 | 2 mg/m3 | |
| Tin Dioxide | 18282-10-5 | 2 mg/m3 | 2 mg/m3 (as Tin) | |
| Tungsten | 7440-33-7 | 5 mg/m3 TWA, 10 mg/m3 (STEL) | NE | |

Components not listed above do not have published exposure limits from ACGIH or OSHA.

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Respiratory protection not normally needed. Mask should be worn while cleaning debris from weapons

PROTECTIVE GLOVES:

None required for normal handling.

EYE PROTECTION:

Safety glasses with side shields required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation. Use hearing protection with this product.

WORK / HYGIENIC PRACTICES:

Avoid breathing fumes from ignition. DO NOT EAT/DRINK/SMOKE WHILE HANDLING PRODUCT !!!

| PRODUCT NAME: | 40mm Skat-Shell Roun | | |
|-----------------------------------|--|--|---|
| PRODUCT NUMBER: | 6171 | DATE | :: March 11, 2010 |
| | Product | Components (Continued) | LC50 of Ingredient |
| Hazardous Components | CAS # | LD50 of Ingredient (Oral, Rat - unless otherwise specified) | (Inhalation, Rat - unless otherwise specified) |
| Rosin | 8050-09-7 | 3.0 mg/kg | 110 mg/m3 |
| Silica, Fumed | 7631-86-9 | 3160 mg/kg as Silicon | Not Established |
| Silicon | 7440-21-3 | 3160 mg/kg | Not Established |
| Tetracene | 109-27-3 | 1 – 3 g/kg | Not Established |
| Tin Dioxide | 18282-10-5 | >20 gm/kg | Not Established |
| Zinc | 7440-66-6 | > 8,437 mg/kg | Not Established |
| PVC Polymer, Strontium peroxic | | ECOLOGICAL INFORMATION | |
| | | components may be harmful or toxic to aque and nickel are expecially problematic w | |
| | SECTION 13 - L | DISPOSAL CONSIDERATIONS | |
| WASTE DISPOSAL METHOD: | | | |
| local, state and federal laws and | d regulations regarding trea eated as hazardous. Damag ts. | f unused material, residues and containers tment, storage and disposal for hazardous ged materials pose a danger to anyone in th | and nonhazardous wastes. |
| | SECTION 14 - | TRANSPORT INFORMATION | |
| PROPER SHIPPING NAME: | AMMUNITION TEAI | R PRODUCING, UN 0301 | |
| DOT HAZARD CLASS / Pack Group: | Explosives,1.4G, (6.1), (8), / II | IATA HAZARD CLASS / Pack Group: | 1.4G, (6.1), (8), / II, 75Kg Cargo Aircraft Only |
| REFERENCE: 49CFR | | IMDG HAZARD CLASS: Explosives | s 1.4G, (6.1), (8), / II |
| UN / NA IDENTIFICATION NUMBER: | UN0301 | RID/ADR Dangerous Goods Code: | Explosives 1.4G (Sub 6, 8.1) |
| LABEL: Explosives 1.4G, Po | oison, Corrosive | UN TDG Class / Pack Group: | 1.4G, (6.1), (8), / II |
| | DANGER | Hazard Identification Number (HIN): NA | |
| | • | ence only. Client is urged to consult CFI | - |

IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

| PRODUCT NAME: PRODUCT NUMBER: | 40mm Skat-Shell Round CN 6171 | | DATE | Marah 11, 2010 |
|--|--|----------------------------------|----------------|--------------------------|
| PRODUCT NUMBER: | | ULATORY INFORMATIC | DATE: | March 11, 2010 |
| TSCA (USA - Toxic Substanc | | | /// | |
| TSCA (USA - Toxic Substance Control Act): Components are listed under Section8b. SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): | | | | |
| Acute Health: | YES | Chronic Health: | | YES |
| Fire: | YES | Sudden Release of | Proceuro. | YES |
| Reactive: | NO | | Tressure. | TES |
| | GREDIENTS: Copper, Zinc (fume | or dust) Lead Antimony | | |
| CERCLA (USA - Comprehens | sive Response Compensation and Q. = 5000 lbs. (No reporting is re | Liability Act): Copper, R.Q.= 5 | | |
| California Prop 65, Safe Drinki | ing Water and Toxic Enforcement | Act of 1986: Lead Compound | s / Antimony 1 | Trioxide from Use. |
| State Right To Know Laws: Th RI. | is product contains chemicals I | isted on the Right-to-Know L | .aws of CA, FL | ., MA, MI, MN, NJ, PA, & |
| CPR (Canadian Controlled Pr | oducts Regulations): Exe | empt under WHMIS regulation | ns as explosiv | /e. |
| IDL (Canadian Ingredient Disc | closure List): Components a | re listed in Section 2. | | |
| DSL / NDSL (Canadian Dome | estic Substances List / Non-Domes | stic Substances List): Listed or | • exempt on bo | oth CDSL and NDSL. |
| EINECS (European Inventory | of Existing Commercial Chemical | Substances): Refe | erenced. | |
| WGK Water Quality Index: | NA for product. | | | |
| EUROPEAN (GHS) HAZ | | | | |
| EU RISK PHRASES | | | | |
| R2: Risk of explosion by shock, friction, fire or other sources of ignition. R20/22: Harmful by inhalation and if swallowed. R33: Danger of cumulative effects. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61: May cause harm to the unborn child. R62: Possible risk of impaired fertility. | | | | |
| EU SAFETY PHRASES | | | | |
| S1/2: Keep locked up and out of the reach of children. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53: Avoid exposure — obtain special instructions before use. S60: This material and its container must be disposed of as hazardous waste. | | | | |

| PRODUCT NAME: | 40mm Skat-Shell Round CN | | |
|--|--|--|--|
| PRODUCT NUMBER: | 6171 | DATE: | March 11, 2010 |
| | SECTION 16 - OTHER | INFORMATION | |
| HMIS HAZARD RATINGS | | | |
| | HEALTH: | 2 | |
| | FLAMMABILITY: PHYSICAL HAZARD: | 3 | 1 = SLIGHT 2 = MODERATE |
| | | | 3 = HIGH |
| | Personal Protective Equipme | nt: K | 4 = EXTREME |
| Legend: | | | |
| EINECS- European Inventory o HMIS - Hazardous Materials I NA - Not Available , ND - | f Government Industrial Hygienists , f Existing Commercial Chemical Subs dentification System, IARC - Interna Not Determined, NE - Not Esta Occupational Safety and Health, NTP - nd Health Administration | stances ational Agency for Research blished, NR - Not Repoi | on Cancer ted |
| explosion by shock, friction, fire of may cause fire. R9 Explosive who flammable gases. R17 Spontane Harmful if swallowed. R23/24/25 | en dry. R2 Risk of explosion by shock, f or other sources of ignition. R5 Heating f en mixed with combustible material. R11 ously flammable in air. R20 Harmful by i Toxic by inhalation, in contact with skin s. R36 Irritating to eyes. R36/37/38 Irritat | may cause an explosion. R8 C Highly flammable. R15 Conta nhalation. R20/22 Harmful by i and if swallowed. R23/25 Toxid | ontact with combustible material act with water liberates extremely nhalation and if swallowed. R22 c by inhalation and if swallowed. |
| danger of serious damage to hea aquatic organisms, may cause lo term adverse effects in the aquat | ogenic effect. R43 May cause sensitisat Ith by prolonged exposure if swallowed. ng-term adverse effects in the aquatic e ic environment.R61 May cause harm to kin dryness or cracking. R67 Vapours m | R50 Very toxic to aquatic orga nvironment. R51/53 Toxic to a the unborn child. R62 Possible | anisms. R50/53 Very toxic to quatic organisms, may cause long e risk of impaired fertility. R66 |
| REVISION SUMMARY: | | | |
| MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3 Website: www.chemtelinc.com | 3924 Intl. +01 813-248-0573 | ChemTe | |
| information furnished by the man confirm in advance of need that responsibility for injury to vendee to as stipulated in the data sheet. | is believed to be accurate but is not ufacturer of the product and manufactu information is current, applicable and su or third persons proximately caused by Furthermore, vendor assumes no respon e followed. Any questions regarding this | rers of the components of the ited to the circumstances of u the material if reasonable saf sibility for injury caused by abr | e product. Users are advised to use. Vendor assumes no iety procedures are not adhered normal use of this material even if |
| | | | |