





184 MCNALEY ROAD  
COLUMBUS, MT 59019  
(406)322-1303

# NEXT FX, INC. SAFETY DATA SHEET

## BINARY KITS- (ALL TYPES)

PRODUCT. "FOR PROFESSIONAL USE ONLY" NOT FOR CONSUMER OR RETAIL SALES.

**SALES TO PERSONS UNDER (18) YEARS PROHIBITED.**

POTENTIAL ACUTE HEALTH EFFECTS:

**MIXED COMPOSITION CAN CAUSE SERIOUS BURN/PRESSURE INJURIES IF INCORRECTLY USED. UNMIXED PRODUCT SHOULD NOT BE INGESTED OR INHALED.**

POTENTIAL CHRONIC HEALTH EFFECTS:

**THERE ARE NO CHRONIC AFFECTS FROM HANDLING THIS PRODUCT APPROPRIATELY. SEE APPROPRIATE MSDS FOR COMPONENT INGREDIENTS.**

NATIONAL FIRE PROTECTION ASSOCIATION RATINGS; (MIXED BINARY ONLY)

**HEALTH HAZARD - 1 FLAMMABILITY - 1 (UNMIXED), 4 (MIXED)**

**REACTIVITY - 0 (UNMIXED), 4 (MIXED) SPECIAL - 0**

## SECTION III: COMPOSITION/INGREDIENT INFORMATION

HAZARDOUS INGREDIENTS	%	CAS NUMBER
(PART A)		
SILICON DIOXIDE, (FUMED SILICA)	*	112945-52-5
STRONTIUM NITRATE, (RED)	*	10042-76-9
ALUMINUM, (SPHEROIDAL)	*	7429-90-5
POTASSIUM PERCHLORATE	*	7778-74-7
ALUMINUM OXIDE	*	1344-28-1
MAGNESIUM	*	7439-95-4
TITANIUM	*	7440-32-6

\* INGREDIENT PERCENTAGES ARE COMPANY PROPRIETARY. THIS IS AN ALL-INCLUSIVE LIST. NOT ALL CHEMICALS ARE FOUND IN EACH VARIANT. COMPOSITIONS VARY FOR TYPE OR EFFECT ORDERED BY CUSTOMER.

## SECTION IV: FIRST AID MEASURES

ROUTES OF ENTRY; X SKIN CONTACT - SKIN ABSORPTION X EYE CONTACT X INHALATION X INGESTION
<p><b>SKIN CONTACT:</b> (MIXED) - SERIOUS BURNS OR PRESSURE INJURIES COULD TAKE PLACE IF ACCIDENTAL IGNITION OCCURS. (UNMIXED) - CONTENTS SHOULD BE WASHED IMMEDIATELY FROM EXPOSED AREA WITH PLENTY OF SOAP AND WATER.</p>
<p><b>EYE CONTACT:</b> (MIXED) - SERIOUS EYE INJURIES COULD RESULT IF ACCIDENTAL IGNITION OCCURS. (UNMIXED) - FLUSH EYES FOR A MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.</p>
<p><b>INHALATION:</b> (MIXED OR UNMIXED) - IF OVEREXPOSURE HAS OCCURRED, REMOVE VICTIM FROM AREA AND SEEK FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION IMMEDIATELY. SMOKE FROM MATERIAL BURNING MAY CAUSE IRRITATION IF USED WITHIN NON-VENTILATED OR SMALL CONFINED SPACES.</p>
<p><b>INGESTION:</b> (MIXED OR UNMIXED) - IF CONTENTS ARE ACCIDENTALLY INGESTED, SEEK MEDICAL ATTENTION AS SOON AS POSSIBLE.</p>



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### **ACUTE HEALTH EFFECTS:**

SOME INGREDIENTS ARE CONSIDERED IRRITANTS AND SHOULD BE HANDLED AS SUCH IF EXPOSED. CONTENTS, (WHEN MIXED TOGETHER) ARE EXPLOSIVE AND WILL CAUSE SERIOUS BURN/PRESSURE INJURIES IF ACCIDENTALLY IGNITED.

### **CHRONIC HEALTH EFFECTS:**

THERE ARE NO CHRONIC AFFECTS FROM THE HANDLING OF THIS PRODUCT.

## SECTION V: FIRE FIGHTING MEASURES & RELATED INFORMATION

<p><b>FLAMMABILITY;</b> (MIXED) BINARY KIT IS EXPLOSIVE - DEFLAGRATION AND/OR DETONATION MAY OCCUR! (UNMIXED) BINARY KIT CONTAINS AN OXIDIZING AGENT THAT CAN CONTRIBUTE TO COMBUSTION AND A FLAMMABLE SOLID (POWDERED METALS). VERY FINELY DIVIDED METALS ARE FLAMMABLE AND CAN SOMETIMES BE PYROPHORIC.</p>	<p><b>NFPA RATING;</b> 4 - SEVERE HAZARD, (MIXED) 2 - MODERATE HAZARD, (UNMIXED)</p>
<p><b>GENERAL FIRE HAZARDS;</b> PYROTECHNIC COMPOSITIONS BURN VIOLENTLY AND ARE SELF-OXIDIZED. FASTER BURNING COMPOSITIONS MAY REACH DETONATION LEVELS DEPENDENT UPON COMPOSITION, PACKAGED CONFIGURATION AND/OR CONTAINMENT.</p>	
<p><b>MEANS OF EXTINGUISHMENT;</b> PYROTECHNICS ARE SELF-OXIDIZED AND CANNOT BE EXTINGUISHED WITH NORMAL MEANS. DO NOT FIGHT FIRES INVOLVING THE MIXED BINARY. INCIPIENT FIRES OR FIRES INVOLVING UNMIXED INGREDIENTS MAY BE FOUGHT. DO NOT USE SUFFOCATION METHODS, CLEAR AREA OF PERSONNEL AND FLOOD WITH WATER, (UNMIXED BINARY KITS ONLY!).</p>	

## SECTION VI: ACCIDENTAL RELEASE MEASURES

<p><b>CONTAINMENT PROCEDURES;</b> SPILLED INGREDIENTS MAY BE SWEEPED UP AND RE-PACKAGED IN ORIGINAL PACKAGING OR EQUIVALENT. IN CASE MIXED PYROTECHNIC COMPOSITION IS SPILLED: KEEP AWAY FROM ANY POSSIBLE IGNITION SOURCES SUCH AS OPEN FLAMES, SPARKS AND NON-RATED ELECTRICAL DEVICES. PREVENT POSSIBLE ELECTROSTATIC DISCHARGES (FOR EXAMPLE: DO NOT USE A SYNTHETIC DUSTPAN AND BRUSH).</p>
<p><b>CLEAN-UP PROCEDURES;</b> PACKAGED MATERIALS CAN BE PICKED UP GENTLY. FOR (UNMIXED) SPILLED MATERIAL, WHICH MAY BE RELEASED ACCIDENTALLY, FLOOD AREA WITH WATER AND USE CONDUCTIVE OR NATURAL MATERIAL UTENSILS FOR PICK-UP. PLACE INTO A CLOSED CONDUCTIVE CONTAINER FOR DISPOSAL. (MIXED) FLOOD WITH WATER, ALLOW TO SOAK FOR A FEW MINUTES AND THEN FOLLOW CLEAN-UP PROCEDURE.</p>



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### SECTION VII: HANDLING AND STORAGE

<p><b>HANDLING PROCEDURES AND EQUIPMENT;</b>  <b>ALL PYROTECHNICS SHOULD BE HANDLED WITH CAUTION. AVOID OPEN FLAMES, SMOKING, FRICTION, IMPACT, EXCESSIVE HEAT, ELECTROSTATIC DISCHARGES, RADIO FREQUENCY INTERFERENCE. SAFETY INSTRUCTIONS INCLUDED IN PACKAGING. IN SOME CASES, UNPACKAGED OR EXPLOSIVE/PYROTECHNIC MATERIALS PACKAGED IN OTHER THEN ORIGINAL PACKAGING MAY HAVE TO BE HANDLED AS A HIGHER HAZARD. I.E. 1.1 OR 1.3 CLASSIFICATION. UNMIXED INGREDIENTS ARE HAZARD CLASSIFIED AS AN OXIDIZER AND FLAMMABLE SOLID AND MUST BE HANDLED ACCORDINGLY.</b></p>
<p><b>STORAGE REQUIREMENTS;</b>  <b>STORE IN A COOL, WELL VENTILATED, AND DRY AREA. BINARY KITS, (AS PACKAGED) ARE CLASSIFIED AS AN ARTICLE, PYROTECHNIC, CLASS 1.4</b></p>

### SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>EXPOSURE LIMITS:</b>	<b>ACGIH TLV = 10 MG/M<sup>3</sup></b>	<b>OSHA PEL = 10 MG/M<sup>3</sup></b>	<b>OTHER = NUISANCE DUST</b>
<p><b>ENGINEERING CONTROLS;</b>  <b>EXPOSURE TO THE MIXING PROCESS SHOULD BE ISOLATED AND CONSIDERED A ONE-TIME PROCESS. THE FOLLOWING CHEMICALS HAVE EXPOSURE LEVELS LISTED ON SPECIFIC MSDS, (THESE PEL'S ARE ONLY APPLICABLE DURING MANUFACTURING);</b>  <b>SILICON DIOXIDE</b></p>			
<p><b>PERSONAL PROTECTIVE EQUIPMENT;</b>  <b>WEAR PROTECTIVE GLOVES AND FACE SHIELD WHILE MIXING.</b></p>			

### SECTION IX: PHYSICAL PROPERTIES

<b>PHYSICAL STATE;</b> <b>POWDER - SUPPLIED IN TWO SEPARATE CONTAINERS</b>	<b>ODOR &amp; APPEARANCE;</b> <b>WHITE AND GRAY POWDER - NO ODOR</b>	<b>SPECIFIC GRAVITY;</b> <b>N/A</b>
<b>ODOR THRESHOLD;</b> <b>N/A</b>	<b>VISCOSITY;</b> <b>N/A</b>	<b>PARTITION COEFFICIENT; (N- OCTONAL/WATER)</b> <b>N/A</b>
<b>VAPOR DENSITY; (AIR=1)</b> <b>N/A</b>	<b>VAPOR PRESSURE; (MM/HG)</b> <b>N/A</b>	<b>EVAPORATION RATE;</b> <b>N/A</b>
<b>BOILING POINT; (°C)</b> <b>N/A</b>	<b>FREEZING POINT; (°C)</b> <b>N/A</b>	<b>PH;</b> <b>N/A</b>
<b>SOLUBILITY IN WATER;</b> <b>OXIDIZER MAY DISSOLVE OVER LENGTH OF TIME</b>	<b>MELTING POINT;</b> <b>(MIXED) WILL AUTO-IGNITE BEFORE MELTING</b>	<b>VOC;</b> <b>N/A</b>
<b>FLASHPOINT;</b> <b>N/A</b>	<b>UPPER FLAMMABLE LIMITS;</b> <b>N/A</b>	<b>LOWER FLAMMABLE LIMITS;</b> <b>N/A</b>
<b>AUTO-IGNITION TEMPERATURE;</b> <b>APPROX. - 440° C</b>	<b>SENSITIVITY TO IMPACT;</b> <b>UNKNOWN</b>	<b>SENSITIVITY TO ELECTROSTATIC;</b> <b>UNKNOWN.</b>





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## BINARY KITS- (ALL TYPES) SECTION XII: ECOLOGICAL INFORMATION

<p>ECOTOXICITY; THE FOLLOWING LIST OF CHEMICALS MAY HAVE ADDITIONAL ECOTOXICITY INFORMATION ON THEIR SPECIFIC SDS;</p>	<p>BOD5 &amp; COD; NOT AVAILABLE</p>
<p>PRODUCTS OF DEGRADATION; POSSIBLY HAZARDOUS SHORT TERM, DEGRADATION PRODUCTS ARE NOT LIKELY.</p>	
<p>TOXICITY OF THE PRODUCTS OF BIODEGRADATION; THE PRODUCTS OF DEGRADATION ARE LESS TOXIC THAN THE PRODUCT ITSELF.</p>	
<p>OTHER ADVERSE AFFECTS; NOT AVAILABLE</p>	
<p>BIOACCUMULATION; (SEE INGREDIENT SDS)</p>	<p>MOBILITY IN SOIL; (SEE INGREDIENT SDS)</p>

## SECTION XIII: DISPOSAL CONSIDERATIONS:

<p>EPA WASTE CODES APPLICABLE; MIXED BINARY WILL EXHIBIT THE CHARACTERISTICS OF REACTIVITY IN ACCORDANCE WITH 40 CFR. D003 WOULD BE APPLICABLE IF <u>MIXED BINARY</u> IS CONSIDERED WASTE.</p>
<p>WASTE DISPOSAL; WASTES MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. AS STATED ABOVE, UNUSED MIXED COMPOSITION DOES EXHIBIT A RCRA CHARACTERISTIC AS DEPICTED BY 40 CFR AND/OR OTHER INTERNATIONAL REGULATIONS. BEST SUITED FOR INCINERATION AT A LICENSED EXPERIENCED DISPOSAL FACILITY. BURNT MATERIAL, (ASH - IF ANY) MAY BE DISPOSED OF IN REGULAR REFUSE CONTAINER.</p>

## SECTION XIV: TRANSPORTATION INFORMATION

<p>DOT CLASSIFICATION &amp; UN IDENTIFICATION; <b>ARTICLE PYROTECHNIC, UN0431, CLASS 1.4G</b></p>	<p>PROPER SHIPPING NAME &amp; TECHNICAL NAME; <b>ARTICLE, PYROTECHNIC (BINARY KIT)</b></p>
<p>SPECIAL PROVISIONS FOR TRANSPORT; IN CASE OF AN ACCIDENT, THE ERG SHOULD BE CONSULTED FOR EMERGENCY PROCEDURES.</p>	

## SECTION XV: REGULATORY INFORMATION:

<p>FEDERAL &amp; STATE REGULATIONS; REGULATIONS GOVERNING THE MANUFACTURING, USE AND SALE OF PYROTECHNICS AND/OR HAZARDOUS CHEMICALS ARE APPLICABLE TO THIS PRODUCT LINE.</p>
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**OTHER REGULATIONS;**

**OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). EINECS: SOME OF THE COMPOSITIONAL INGREDIENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES. INGREDIENTS MAY HAVE SPECIFIC FEDERAL, STATE OR LOCAL REGULATIONS GOVERNING THRESHOLDS AND HANDLING PROCEDURES AND ONLY APPLY TO THE MANUFACTURING OF THESE ITEMS. IF ONE OF THE INGREDIENTS IS POTASSIUM PERCHLORATE, THE STATE OF CALIFORNIA REQUIRES THAT THIS WARNING BE GIVEN - "SOME PRODUCTS MAY CONTAIN PERCHLORATES. SPECIAL HANDLING MAY APPLY!"**

**SEE [WWW.DTSC.CA.GOV/HAZARDOUSWASTE/PERCHLORATE](http://WWW.DTSC.CA.GOV/HAZARDOUSWASTE/PERCHLORATE).**

## SECTION XVI: OTHER INFORMATION

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL NEXT FX, INC. OR ITS AFFILIATES BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF NEXT FX, INC. AFFILIATES OR CONSULTANTS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

DATE PREPARED;

18 SEPT. 2013

PREPARED BY;

DENNIS SLICER

TELEPHONE NUMBER;

(406)322-1304