

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

BINARY KITS- (ALL TYPES) SECTION I: PRODUCT & MANUFACTURER IDENTIFICATION

PRODUCT IDENTIFIER BINARY KIT - CONCUSSION, SUPERFLASH, FASTBURST AND HOTBURST, (INCLUDES ALL VARIANTS) PRODUCT USE: THEATRICAL PYROTECHNICS AND SPECIAL EFFECTS. SPECIALLY FORMULATED BINARY KIT THAT ONCE MIXED PRODUCES A PYROTECHNIC/EXPLOSIVE MANUFACTURERS NAME; MFG. BY: STAGE FX, INC. DISTRIBUTED BY: NEXT FX, INC. STREET ADDRESS: CITY: STATE MT - USA 184 MCNALEY ROAD COLUMBUS ZIP CODE; TELEPHONE NUMBER; EMERGENCY NUMBERS; 59019 (406)322-1303 DOMESTIC - (800)255-3924 INTER. - +01 (813)248-0585

SECTION II: HAZARDS IDENTIFICATION

WHMIS CLASSIFCATION/GHS CLASSIFCATION: EXPLOSIVE CLASS 1.4 (AS SHIPPED)

EXPLOSIVE CLASS 1.1(ONCE MIXED)





WARNING

(As Shipped Classification)
(Unmixed)



DANGER - (MIXED)

HAZARD STATEMENT: FIRE OR PROJECTION HAZARD

PRECAUTIONARY STATEMENTS:

PREVENTION:

(ONCE MIXED) - KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES/STRAY ELECTRICAL CURRENTS - "No Smoking".

(BEFORE MIXING) - AS SHIPPED); ONE BOTTLE CONTAINS AN OXIDIZING SUBSTANCE & THE OTHER NORMALLY CONTAINS A FLAMMABLE SOLID. HANDLE EACH CONTAINER AS SPECIFIC HAZARD REQUIRES.

RESPONSE;

(BEFORE MIXING - AS SHIPPED)

IF ON SKIN, WASH WITH PLENTY OF WATER.

TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
(ONCE MIXED)

IN CASE OF FIRE: EVACUATE AREA EXPLOSION RISK IN CASE OF FIRE

DO NOT FIGHT FIRE WHEN FIRE HAS REACHED EXPLOSIVE PRODUCT.

PRODUCT USE:

BURNING PROJECTIONS CAN AND WILL IGNITE COMBUSTIBLE MATERIALS. HEIGHT & RADIAL SAFETY DISTANCES SHOULD BE APPLIED. REFER TO LABEL OR MANUFACTURER FOR APPROPRIATE SAFETY DISTANCES FOR SPECIFIC



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

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, (SPHERIODAL)	*	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

SKIN CONTACT;

(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.

EYE CONTACT;

(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.

INHALATION

(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.

INGESTION:

(MIXED OR UNMIXED) - IF CONTENTS ARE ACCIDENTALLY INGESTED, SEEK MEDICAL ATTENTION AS SOON AS POSSIBLE.



(406)322-1303

NEXT FX, INC. SAFETY DATA SHEET

BINARY KITS- (ALL TYPES)

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

FLAMMABILITY:

(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.

NFPA RATING;
4 - SEVERE HAZARD,

(MIXED)
2 - MODERATE HAZARD,
(UNMIXED)

GENERAL FIRE HAZARDS;

PYROTECHNIC COMPOSITIONS BURN VIOLENTLY AND ARE SELF-OXIDIZED. FASTER BURNING COMPOSITIONS MAY REACH DETONATION LEVELS DEPENDENT UPON COMPOSITION, PACKAGED CONFIGURATION AND/OR CONTAINMENT.

MEANS OF EXTINGUISHMENT;

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!).

SECTION VI: ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES;

SPILLED INGREDIENTS MAY BE SWEPT 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).

CLEAN-UP PROCEDURES;

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.



BINARY KITS- (ALL TYPES)

SECTION VII: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT;

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.

STORAGE REQUIREMENTS;

STORE IN A COOL, WELL VENTILATED, AND DRY AREA. BINARY KITS, (AS PACKAGED) ARE CLASSIFIED AS AN ARTICLE, PYROTECHNIC, CLASS 1.4

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS:	ACGIH TLV =	OSHA PEL =	OTHER = NUISANCE
EXPOSURE LIMITS:	1 🗆 м Б / м ³	1 🗆 м Б / м ³	Dust
ENGINEERING CONTROLS;			
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);			
SILICON DIOXIDE			
PERSONAL PROTECTIVE EQUIPMENT;			
WEAR PROTECTIVE GLOVES AND FACE SHIELD WHILE MIXING.			

SECTION IX: PHYSICAL PROPERTIES

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



BINARY KITS- (ALL TYPES)

SECTION X: STABILITY & REACTIVITY

CHEMICAL STABILITY;			IF UNSTABLE, UNDER WHAT CONDITIONS;
X	STABLE	UNSTABLE	
INC	OMPATIBILITIES OR CONDITIONS	TO AVOID;	
lG	NITION SOURCES AND	STRONG ALKAI	LI'S.
Pos	SSIBILITY OF HAZARDOUS REACT	ION;	
U١	UNMIXED - UNLIKELY. MIXED - HIGH IF GIVEN SOURCE OF IGNITION.		
REA	ACTIVITY;		
MIXED COMPOSITION IS VERY REACTIVE TO SOURCES OF IGNITION.			
UNMIXED - SLIGHTLY REACTIVE, (FLAMMABLE SOLID).			
		,	
HA	ZARDOUS DECOMPOSITION;		
DE	DECOMPOSITION DOES NOT OCCUR UNDER NORMAL CIRCUMSTANCES DURING		
ST	ORAGE, TRANSPORT	AND HANDLING	. Upon functioning, this material
CA	N PRODUCE NITRATES	AND DXIDES.	

SECTION XI: TOXICOLOGICAL INFORMATION

B 14 BB:		
CARCINOGENICITY - IARC;	CARCINOGENICITY - ACGIH;	
THESE DEVICES MAY CONTAIN KNOWN	THESE DEVICES MAY CONTAIN KNOWN	
OR SUSPECTED CARCINOGENS. THE	OR SUSPECTED CARCINOGENS. THE	
FOLLOWING LIST OF CHEMICALS ARE	FOLLOWING LIST OF CHEMICALS ARE	
CLASSIFIABLE AND YOU SHOULD	CLASSIFIABLE AND YOU SHOULD	
REFER TO SPECIFIC SDS FOR	REFER TO SPECIFIC SDS FOR	
ADDITIONAL INFORMATION;	ADDITIONAL INFORMATION;	
SILICON DIOXIDE		
ROUTES OF ENTRY;		
(ONLY SPILLED INGREDIENTS OR MIXE	COMPOSITION) INHALATION &	
INGESTION		
MEASURES OF TOXICITY; (INGREDIENTS ONLY)		
SILICON DIOXIDE - (ORAL), LD50 (RAT) 3160 MG/KG		
STRONTIUM NITRATE - (ORAL), LD50 (RAT) 1892 MG/KG		
MAGNESIUM - (ORAL), LD50 (RAT) 230 MG/KG		
CHRONIC EFFECTS ON HUMANS; (INGREDIENTS ONLY)	ACUTE EFFECTS ON HUMANS; (INGREDIENTS ONLY)	
(SEE INGREDIENT SDS)	(SEE INGREDIENT SDS)	
OTHER TOXIC EFFECTS ON HUMANS; (SKIN CORROSION/IRRITATION, EYE DAMAGE/IRRITATION, RESPIRATORY OR SKIN SENSITIZER, OR ASPIRATION HAZARDS)		
(SEE INGREDIENT SDS)		
GERM CELL MUTAGENICITY;	REPRODUCTIVE TOXICITY;	
(SEE INGREDIENT SDS)	(SEE INGREDIENT SDS)	
STOT - SINGLE EXPOSURE;	STOT - REPEATED EXPOSURE;	
(SEE INGREDIENT SDS)	(SEE INGREDIENT SDS)	
SYMPTOMS OF OVEREXPOSURE;		
No overexposure hazards associated with the product.		



(406)322-1303

NEXT FX, INC. SAFETY DATA SHEET

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

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

SECTION XIII: DISPOSAL CONSIDERATIONS:

EPA WASTE CODES APPLICABLE;

MIXED BINARY WILL EXHIBIT THE CHARACTERISTICS OF REACTIVITY IN ACCORDANCE WITH 40 CFR. D003 WOULD BE APPLICABLE IF MIXED BINARY IS CONSIDERED WASTE.

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.

SECTION XIV: TRANSPORTATION INFORMATION

DOT CLASSIFICATION & UN IDENTIFICATION;	PROPER SHIPPING NAME & TECHNICAL NAME;	
ARTICLE PYROTECHNIC, UNO431,	ARTICLE, PYROTECHNIC	
CLASS 1.4G	(BINARY KIT)	
SPECIAL PROVISIONS FOR TRANSPORT;		
IN CASE OF AN ACCIDENT, THE ERG SHOULD BE CONSULTED FOR EMERGENCY		
PROCEDURES.		

SECTION XV: REGULATORY INFORMATION:

FEDERAL & STATE REGULATIONS;

REGULATIONS GOVERNING THE MANUFACTURING, USE AND SALE OF PYROTECHNICS AND/OR HAZARDOUS CHEMICALS ARE APPLICABLE TO THIS PRODUCT LINE.



BINARY KITS- (ALL TYPES)

OTHER REGULATIONS:

(406)322-1303

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."

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;	PREPARED BY;	TELEPHONE NUMBER;
18 SEPT. 2013	DENNIS SLICER	(406)322-1304