

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200. Standard must be consulted for specific requirements

MODEL 9430 TEAR-BALL™ CS NON-LETHAL GRENADE

QUICK IDENTIFIER

Common Name: (used on label and list)

SECTION 1

Manufacturer's Name	Combined Tactical Systems, Inc.		
Address	388 Kinsman Road	Emergency Telephone No.	800-424-9300
City, State and ZIP	Jamestown, PA 16134	Other Information Calls	724-932-2177
Signature of Person Responsible for Preparation (Optional)	Date Prepared		06/22/05

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (Optional)	CAS No.
MODEL 201 Fuze	None	None		0.45 gm	
Zirconium Nickel alloy delay				96.5%	
Titanium powder, technical				1.5%	7440-32-6
Potassium Perchlorate				3.0%	
STARTER	None	None		0.90 gm	
Red Iron Oxide					
Titanium Powder					7440-32-6
Zirconium Powder					7440-67-7
Nitrocellulose Binder					
DELAY & EJECTION CHARGE	None	None		2.00 gm	
Black Powder					
OUTPUT CHARGE	None	None		8.00 gm	
Magnesium					7439-95-4
Aluminum					7429-90-5
Potassium Perchlorate					7778-74-7
OLEORESIN CAPSICUM					
Dispersion Mixture					
Magnesium Oxide	5mg/m ³	5mg/m ³			1309-48-4
Saline, dimethldichloro	20mppcf	10mg/m ³			68611-44-9
o-Chlorobenzalmalononitrile		.4mg/m ³		30%	2698-41-1

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity H ₂ O=1	N/A	Vapor Pressure (mm Hg)	N/A
Vapor Density (Air=1)	N/A	Solubility in Water	Not Soluble in water	Reactivity in Water	N/A
Appearance & Odor	Black rubber ball. No odor			Melting Point	N/A

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	N/A	Method Used	N/A	Flammable Limits in Air % by Volume	LEL Lower	N/A	UEL Upper	N/A
Auto-Ignition Temperature	N/A	Extinguisher Media	CO ² , dry chemical, water					
Special Fire Fighting Procedures		Do not fight fire. If ignition occurs evacuate area until units burn out. Evacuate downwind area.						
Unusual Fire & Explosion Hazards		Net explosive weight (NEW) = 9 gm (approx.)						

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid	High heat sources, open flame and fire.
	Stable	<input checked="" type="checkbox"/>		
Incompatibility (Materials to Avoid)	None known.			
Hazardous Decomposition Products	None known.			
Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid	N/A
	Will Not Occur	<input checked="" type="checkbox"/>		

SECTION 6 - HEALTH HAZARDS

1. Acute		None under normal handling		2. Chronic		None under normal handling						
Signs and Symptoms of Exposure				Tearing of eyes, irritation of respiratory tract and mucous membranes								
Medical Conditions Generally Aggravated by Exposure				Respiratory tract - Asthma								
Listed as Carcinogen or Potential Carcinogen		National Toxicology Program		Yes	<input type="checkbox"/>	I.A.R.C. Monographs	Yes	<input type="checkbox"/>	OSHA	Yes	<input type="checkbox"/>	
				No	<input checked="" type="checkbox"/>		No	<input checked="" type="checkbox"/>		No	<input checked="" type="checkbox"/>	
Emergency and First Aid Procedures		If any medical problem arises from the use of this product seek medical attention from qualified medical persons.										
ROUTES OF ENTRY	1. Inhalation	Fresh air, Oxygen if needed										
	2. Eyes	Flush with copious amounts of water, Fresh air										
	3. Skin	Flush with copious amounts of water										
	4. Ingestion	Contact Physician										

SECTION 7 - SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES

Precautions in Handling and Storage	Keep away from heat, flames or strong oxidizers
Other precautions	Handle as DOD, UN and DOT explosive device per federal, state and local laws. Full Face Respirator with organic filter or (SCBA)
Steps to be Taken in Case Material is released or Spilled	Undamaged units may be picked up and returned to shipping container.
Waste Disposal Method (Consult Federal, State and local Regulations)	By persons qualified to dispose of explosives at an approved site under approved procedures.

SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection (Specify Type)		N/A							
Ventilation	N/A	Local Exhaust	N/A	Mechanical (General)	N/A	Special	N/A	Other	N/A
Protective Gloves	No	Eye Protection	Yes	Other Protective Clothing or Equipment		N/A			
Work / Hygienic Practices		Normal practices							

IMPORTANT - Do not leave any blank spaces. If required information is unavailable, unknown or does not apply, so indicate.