

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 6230 CS Smoke 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		12/29/98

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (Optional)	CAS No.
Starter Mixture				10gm	
Potassium Nitrate					7557-79-1
Silicon		10mg/m ³			7440-21-3
Charcoal		15Mppcf			
CS Smoke				228gm	
Fuel Mixture				71%	
Potassium Chlorate					3811-04-9
Sucrose	15mg/m ³	10mg/m ³			57-50-1
Magnesium Carbonate	15mg/m ³	10mg/m ³			546-93-0
Nitrocellulose					9004-70-0
CS				29%	
o-Chlorobenzalmalononitrile		0.4mg/m ³			26998-41-1

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	NA	Specific Gravity H ₂ O=1	NA	Vapor Pressure (mm Hg)	NA
Vapor Density (Air=1)	NA	Solubility in Water	Not soluble in water	Reactivity in Water	NA
Appearance & Odor	White crystal, Pungent odor			Melting Point	NA

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	NA	Method Used	NA	Flammable Limits in Air % by Volume	LEL Lower	NA	UEL Upper	NA
Auto-Ignition Temperature	NA	Extinguisher Media	CO ² , Dry Chemical, water					
Special Fire Fighting Procedures		Do Not Fight Fire, If ignition occurs evacuate downwind area, allow unit to burn out						
Unusual Fire & Explosion Hazards								

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid
	Stable	<input checked="" type="checkbox"/>	
Incompatibility (Materials to Avoid)	Strong oxidizing agents		
Hazardous Decomposition Products	Burning may produce carbon monoxide and/or carbon dioxide		
Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	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"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA Yes <input 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	Wash 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	
Steps to be Taken in Case Material is released or Spilled	Wear suitable protective clothing, Undamaged units may be picked up and returned to shipping container
Waste Disposal Method (Consult Federal, State and local Regulations)	

SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection (Specify Type)	Full face respirator with organic filter cartridge, or self contained breathing apparatus (SCBA)								
Ventilation	Yes	Local Exhaust	Yes	Mechanical (General)	Yes	Special	No	Other	No
Protective Gloves	Yes	Eye Protection	Yes	Other Protective Clothing or Equipment	As necessary to prevent skin contact				
Work / Hygienic Practices	Wash thoroughly after handling								

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