

# 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 6210-O Orange 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		07/16/03

### SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (Optional)	CAS No.
<b>Starter Mixture</b>				15gm	
Potassium Nitrate					7557-79-1
Silicon		10mg/m <sup>3</sup>			7440-21-3
Charcoal		15Mppcf			
<b>Smoke Mixture</b>				180gm	
Potassium Chlorate		5mg/m <sup>3</sup>			3811-04-9
Sucrose	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>			57-50-1
Magnesium Carbonate	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>			546-93-0
Nitrocellulose					9004-70-0
Orange Dye 86					81-64-1

### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity H <sub>2</sub> 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	Orange Smoke, Slight 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 <sup>2</sup> , Dry Chemical, Water					
Special Fire Fighting Procedures		Do not fight fire. If ignition occurs evacuate downwind area until unit burns out.						
Unusual Fire & Explosion Hazards								

**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid	High heat sources, open flames 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	None known					
Medical Conditions Generally Aggravated by Exposure	None Known					
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.					
<b>ROUTES OF ENTRY</b>	1. Inhalation	No				
	2. Eyes	Mild Irritation				
	3. Skin	Irritation can occur following prolonged or repeated contact				
	4. Ingestion	Can cause gastrointestinal irritation				

**SECTION 7 - SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES**

Precautions in Handling and Storage	Keep away from heat, flames and strong oxidizers
Other precautions	
Steps to be Taken in Case Material is released or Spilled	Wear suitable protective clothing, Undamaged units may be returned to shipping container
Waste Disposal Method (Consult Federal, State and local Regulations)	

**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	N/A	Eye Protection	Yes	Other Protective Clothing or Equipment	N/A				
Work / Hygienic Practices	Normal Hygiene Practices								

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