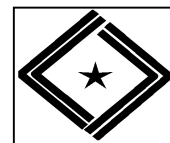


Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communications Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As used on Label and List) MANTESPO PLAIN CAP	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name ORICA DO BRASIL LTDA.	Emergency Telephone Number 800-255-3924
Address (Number, Street, City, State, and ZIP Code) AV. INDUSTRIA QUIMICA MANTIQUEIRA, 317 LORENA, S.P. BRAZIL	Telephone Number for Information (817) 478-8888
DOT CLASS: 'DETONATORS, NON- ELECTRIC, 1.4B, UN0267, PGII" EX-8511062	Date Prepared 15-Dec-06
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(nal)
Pentaerythrite Tetranitrate (PETN)	n/a	1.5mg/m3	n/a	
Lead Azide Pb(N3)2	n/a	1.5mg/m3	n/a	
Lead Styphnate, Lead Trinitroresorcinat, C6H3n3o9Pb	n/a	1.5mg/m3	n/a	

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H2) = 1)	1.7
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	0%
Solubility in Water negligible			
Appearance and Odor odorless white solids			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits n/a	LEL N/A	UEL N/A
Extinguishing Media DETONATORS WILL DETONATE WHEN SET ON FIRE. ISOLATE AREA. DO NOT ATTEMPT TO EXTINGUISH THE FIRE. EVACUATE PERSONNEL TO A SAFE DISTANCE.			
Special Fire Fighting Procedures DETONATORS WILL DETONATE WHEN SET ON FIRE. ISOLATE AREA. DO NOT ATTEMPT TO EXTINGUISH THE FIRE. EVACUATE PERSONNEL TO A SAFE DISTANCE.			
Unusual Fire and Explosion Hazards DETONATORS WILL EXPLODE WITH VIOLENT RELEASE OF GASES WHEN SET ON FIRE OR SUBMITTED TO SEVERE IMPACT.			

(Reproduce locally)

IDENTITY (As used on Label and List) MANTESPO PLAIN CAP	
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Section V - Reactivity Data

Stability	Unstable	X	Conditions to Avoid KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID SEVERE IMPACT,
	Stable		
Incompatibility (Materials to Avoid) NO KNOWN CHEMICAL INCOMPATIBILITY			
Hazardous Decomposition or Byproducts PRODUCES NITROGEN OXIDES WHEN DETONATED			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	N/A	Skin?	N/A	Ingestion?	N/A
Health Hazards (Acute and Chronic) NONE						
Carcinogenicity:	NTP?		IARC Monographs?		OSHA Regulated?	
N/A	N/A		N/A		N/A	
Signs and Symptoms of Exposure N/A						
Medical Conditions Generally Aggravated by Exposure N/A						
Emergency and First Aid Procedures IN CASE OF INJURY SUSTAINED BY DETONATION, SEEK EMERGENCY MEDICAL CARE IMMEDIATELY.						

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spille	REVIEW FIRE AND EXPLOSION SAFETY PROCEDURES BEFORE STARTING CLEAN UP OPERATIONS. WEAR APPROPRIATE PERSONAL PROTECTION CLOTHING.
Waste Disposal Method	USE ONLY PROPERLY TRAINED PERSONNEL AND PROCEDURES. CONSULT EXPLOSIVES MANUFACTURER OR CONSULTANT IN CASE EXPERT PERSONNEL IS NOT AVAILABLE.
Precautions to Be Taken in Handling and Storing	STORAGE OF EXPLOSIVES MUST COMPLY WITH ATF REGULATIONS PACKAGING, MARKING AND LABELING OF BOXES MUST COMPLY WITH 49 CFR DEPT. OF TRANSPORTATION REGULATIONS.
Other Precautions	KEEP PACKAGE CLOSED WHEN NOT IN USE. KEEP AWAY FROM CHILDREN. NO SMOKING IN THE GENERAL VICINITY WHERE THE MATERIAL IS BEING HANDLED. REFER TO INSTRUCTIONS AND WARNING LABELS PROVIDED BY MANUFACTURER.

Section VIII - Control Measures

Respiratory Protection (Specify Type)			
n/a			
Ventilation	Local Exhaust	Special	
	n/a		n/a
	Mechanical (General)	Other	
	n/a		n/a
Protective Gloves		Eye Protection	
n/a		n/a	
Other Protective Clothing or Equipment			
n/a			
Work/Hygenic Practices			
n/a			