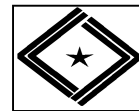


Material Safety Data Sheet

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) ELECTRIC DET. FLUID DESENSITISED DFC10,11	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 BRASIL LTDA AV. INDUSTRIAL QUMICA MANTIQUEIRA 317 LORENA-SP-BRASIL-CEP	Emergency Telephone Number 1-800-255-3924
	Telephone Number for Information (817) 478-8888
	Date Prepared June 1, 2010
	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 (optional)
CYCLOTRIMETHYLENE TRINITRAMINE (RDX)	N/A	1.5mg/m3	N/A
LEAD AZIDE STYPHNATE	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	200C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	0%
Solubility in Water	Negligible		

Appearance and Odor
ALUMINUM SHELL CONTAINING PETN , AN ODORLESS WHITE SOLID

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
DO NOT TRY TO EXTINGUISH FIRE. ELECTRIC DETONATORS WILL EXPLODE WHEN SET ON FIRE.

Special Fire Fighting Procedures
ISOLATE THE AREA AND EVACUATE PERSONNEL TO A SAFE DISTANCE.

Unusual Fire and Explosion Hazards
DETONATORS WILL EXPLODE WITH VIOLENT RELEASE OF GASES WHEN SET ON FIRE, SUBMITTED TO SEVERE IMPACT, OR SUBJETED TO EXTREME HIGH TEMPERATURE.

****WARNING: THIS IS AN ELECTRIC DETONATOR AND IS VULNERABLE TO STATIC ELECTRICITY & RADIO FREQUENCIES!**

(Reproduce locally) OSHA 174, Sept. 1985

IDENTITY (As used on lable and list) ELECTRIC DETONATOR RJ-215-IV
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Section V - Reactivity Data			
Stability	Unstable X Stable		Conditions to Avoid SEVERE IMPACT, EXTREME HEAT, EXTREME HIGH PRESSURE, STATIC ELECTRICITY AND RADIO FREQUENCIES.
Incompatibility (Materials to Avoid)	NO KNOWN CHEMICAL INCOMPATIBILITY		
Hazardous Decomposition or Byproducts	PRODUCES NITROGEN OXIDES WHEN DETONATED		
Hazardous Polymerization	May Occur Will Not Occur	X	Conditions to Avoid

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
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 Spilled
 REVIEW FIRE AND EXPLOSION SAFETY PROCEDURES BEFORE STARTING
 CLEAN UP OPERATION. 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
 REFER TO INSTRUCTIONS AND WARNING LABELS AND LITERATURE PROVIDED BY THE
 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

All information in this MSDS has been obtained from sources considered reliable but is submitted without any warranties.