


PETRO EXPLO INC.

Safety Data Sheet

Date: 6/5/2015

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SECTION 1- IDENTIFICATION	
PRODUCT NAME:	E045 (RJ045) Instantaneous Electric Detonator
RECOMMENDED USES:	Initiating Explosive
*****EMERGENCY RESPONSE CHEMTEL 800-255-3924 CONTRACT MIS0003458	
MANUFACTURER:	RJC Defesa e Aeroespacial Ltda
	Estrada Do Piaugi MK 01, Bairro Porto Do Meira
	12.600- Lorean S.P. Brazil
Non-Emergency or for more information 817-478-8888	

SECTION 2- HAZARDS IDENTIFICATION	
GHS CLASSIFICATION: EXPLOSIVES	
SIGNAL WORD: WARNING FIRE OR PROJECTION HAZARD	
PICTOGRAM:	
	
PRECAUTIONARY STATEMENTS:	
P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. NO SMOKING	
P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT	
P250: DO NOT SUBJECT TO GRINDING/SHOCK/FRICTION	
P280: WEAR FACE PROTECTION	

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS		
CHEMICAL OR TRADE NAME	CHEMICAL FORMULA	CAS NUMBER
PETN	C ₅ H ₈ N ₄ O ₁₂	78-11-5
Lead Azide	Pb (N ₃) ₂	13424-46-9
EXPLOSIVE CONTENT IS A SPECIAL MIXTURE IN A METAL SHELL		

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SECTION 4- FIRST AID MEASURES	
EMERGENCY AND FIRST AID PROCEDURES:	
EYES- WEAR FACE PROTECTION- IF INJURY OCCURS SEEK EMERGENCY MEDICAL ATTENTION	
SKIN- WEAR PROTECTIVE GLOVES/CLOTHING. IF INJURY OCCURS SEEK EMERGENCY MEDICAL ATTENTION	
INHALATION- MOVE VICTIM TO FRESH AIR. SEEK EMERGENCY MEDICAL ATTENTION	
INGESTION- SEEK EMERGENCY MEDICAL ATTENTION	

SECTION 5- FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA:	Water sprinkler/deluge system recommended
	In case of fire, evacuate area
	Explosion Risk
	DO NOT fight fire when fire reaches explosives
FIRE FIGHTING PROCEDURES	Do not attempt to manually extinguish fires. Burning explosives may accelerate to a detonation at any time when subjected to confinement, shock, or other sufficient initiation source.
SPECIAL HAZARDS CAUSED BY THE SUBSTANCE, ITS BURNING RESIDUES OR RESULTING GASES	In case of fire hazard or explosion. In any case it has to be prevented that the fire catches the product. No trials to extinguish when the fire has caught the product, look for safe shelter, approximately 1000 feet.

SECTION 6- ACCIDENTAL RELEASE MEASURES	
Personal precautions, Protective equipment, and Emergency procedures:	Removal of ignition sources. Do not eat, drink, smoke when working. Avoid contact with eyes. Keep unauthorized persons away.
Environmental precautions:	Do not let into sewerages or waters. After penetration of waters, immediately notify authorities.
Procedures for cleaning/picking up	Pick up by hand or other non-sparking tools and put into clean and marked containers which can be covered. Avoid impact and friction. Do not use sparking tools. After all is picked up, drown area with water. In case of rain, cover the product with a tarpaulin.

SECTION 7- HANDLING AND STORAGE	
Handling	Protect from fire. Open and handle containers with care. Keep away ignition sources. Do not smoke. Avoid impact and friction.
Storage	Store in a cool dry place in original packaging. Store in accordance to all state and national regulations.
STORE ONLY IN APPROVED MAGAZINES, IN ORIGINAL PACKAGING. STORAGE AND HANDLING MUST BE CARRIED OUT WITH ONLY TRAINED PERSONNEL ACCORDING TO SAFETY AGENCY REGULATIONS.	

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SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:	Contains no substances with threshold limit value	
ENGINEERING MEASURES	Install efficient earthing at working place. Do not use sparking tools	
HYGIENE MEASURES	Keep away from foodstuff, beverages, and feedstuff. Avoid contact with eyes. Wash hands before breaks, and when finished.	
INDIVIDUAL PROTECTION MEASURES	Breathe Protection	In case of dust, dust mask
	Hand Protection	Not needed if handled properly
	Eye Protection	Not needed if handled properly
	Body Protection	Not needed if handled properly

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	1.7
Vapor Pressure (mm Hg)	N/A	Melting Point	200°C
Vapor Density (Air=1)	N/A	Evaporation Rate	N/A
Solubility in Water	N/A		

Appearance and Odor: Explosive Content in an Aluminum Shell. Odorless.

SECTION 10- STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Keep away from any heat source. Avoid sparks, flames, friction, or impact. Do not remove any material from inside case/cover
Incompatible Materials	Volatile or corrosive chemicals, fuels, acids, and bases.
Hazardous Decomposition	None as long as the recommended handling, transport, storage & use are met, In the event of fire, the produced gases may include lead compounds, carbon monoxide, and nitrogen oxides.
Risk of Hazardous Reactions	No risk of spontaneous reactions.

SECTION 11- TOXICOLOGICAL INFORMATION

Overexposure Effects- The produced gases may include lead compounds, carbon monoxide and nitrogen oxides, which may be toxic.

Inhalation	None under normal conditions. If gases are inhaled, overexposure may cause nausea, headaches, and possibly unconsciousness. If any of these effects occur, seek medical attention immediately.
Skin	None under normal conditions. Given the composition of the accessory, it is unlikely it will cause irritation.
Eyes	None under normal conditions. If for any reason the explosive mass contacts the eyes, it may cause irritation.
Ingestion	Accidental ingestion of the explosive mass causes gastrointestinal disorders.

Overexposure Symptoms- No symptomatology when the authorized procedures for storage and handling and use are met.

Safety Precautions Avoid inhaling the gases resulting from combustion

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SECTION 12- ECOLOGICAL INFORMATION	
Ecotoxicity	This is an assembled product that does not expose its contents under normal conditions of handling.
Persistence Degradability	Not Applicable
Bioaccumulation	Bioaccumulation is not expected
Environmental Effects	This is an assembled product that does not expose its contents under normal conditions of handling.

SECTION 13- DISPOSAL CONSIDERATIONS	
Waste Treatment Methods:	All waste must be handled in accordance with the local, state and federal regulations. Use only properly trained personnel and proper procedures. Consult explosives manufacturer in case expert personnel is unavailable.
Disposal of packages or containers	All waste must be handled in accordance with the local, state and federal regulations. Disposal by only properly trained personnel. Consult explosives manufacturer in case expert personnel is unavailable.

SECTION 14- TRANSPORTATION INFORMATION	
Proper Shipping Name	Detonators, Electric, UN 0255, PG II, 1.4B
Part Number/Name	RJ 045 Instantaneous Electric Detonator
EX Number	2014010900
Dimensions	328 x 184 x 128 mm
Net Weight	2.05 kg
Gross Weight	3.8 kg
Net Explosive Content	0.0250 kg per case
Marine Pollutant: No	
Reference 49 CFR for specific Department of Transportation (DOT) shipping requirements	

SECTION 15- REGULATORY INFORMATION	
1.4 B - Explosive Regulations on Control of Explosives for Civilian/Commercial use by the Bureau of Alcohol, Tobacco, Firearms, and Explosives. Regulations on Transportation of Explosives for Civilian/Commercial use by the Department of Transportation.	

SECTION 16- OTHER INFORMATION	
The information contained herein is furnished without warranty of any kind. Employers should use this information as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from other sources to assure proper use of these materials and the safety and health of employees.	