

UNIVERSAL PROPULSION COMPANY, INC. -- ROCKET CATAPULT 1001-509 -- 1377-01-088-2321  
===== Product Identification =====

Product ID:ROCKET CATAPULT 1001-509  
MSDS Date:06/21/1989  
FSC:1377  
NIIN:01-088-2321  
MSDS Number: BJCRT  
=== Responsible Party ===  
Company Name:UNIVERSAL PROPULSION COMPANY, INC.  
Address:BLACK CANYON - STAGE 1  
Box:1140  
City:PHOENIX  
State:AZ  
ZIP:85027  
Info Phone Num:(602) 869-8067  
Emer  
gency Phone Num:(602) 869-8067  
Preparer's Name:W. ROBERTS  
CAGE:51998  
=== Contractor Identification ===  
Company Name:UNIVERSAL PROPULSION CO  
Address:25401 N CENTRAL AVENUE  
Box:City:PHOENIX  
State:AZ  
ZIP:85027-7899  
Country:US  
Phone:602-516-3340  
CAGE:51998

===== Composition/Information on Ingredients =====

Ingred Name:AMMONIUM PERCHLORATE  
CAS:7790-98-9  
RTECS #:SC7520000

===== Hazards Identification =====

Routes of Entry: Inhalation:NO Skin:NO

Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Explanation of Carcinogenicity:NONE

===== Fire Fighting Measures =====

Fire Fighting Procedures:DON'T FIGHT FIRE. EVACUATE AREA UNTIL ROCKET MOTORS BURN OUT. ROCKET MOTORS WILL BE PROPULSIVE.  
Unusual Fire/Explosion Hazard:THIS ROCKET MOTOR IS CLASSIFIED AS A DOT CLASS B EXPLOSIVE.

===== Accidental Release Measures =====

Spill Release Procedures:IF ROCKET MOT OR IS UNDAMAGED, IT MAY BE PICKED UP & RETURNED TO ORIGINAL SHIPPING CONTAINER & EQUIVALENT. VERIFY SHIPPING CAPS IN PLACE.

===== Handling and Storage =====

Handling and Storage Precautions:TREAT AS A CLASS 1.3 CAPATIBILITY GROUP C EXPLOSIVE IN ACCORDANCE W/FEDERAL, STATE & LOCAL LAWS.  
Other Precautions:DON'T DROP & ROUGH HANDLE IN ANY WAY. THIS PRODUCT DOESN'T CONTAIN TOXIC CHEMICALS IN AMOUNTS ABOVE REPORTING REQUIREMENTS.

===== Exposure Controls/Personal Protection =====

Eye Protection:SAFETY GLASSES  
Other Protective Equipment:FLAME-RESISTANT CLOTHING  
Supplemental Safety and Health  
THIS ROCKET CATAPULT ASSEMBLY CONTAINS A SOLID COMPOSITE PROPELLANT GRAIN THAT WEIGHS APPROXIMATELY 11.7 POUNDS. TWO PERCUSSION PRIMERS, M42-5086-0.04 GMS. EXPLOSIVE (APPROX). BKNO3 IGNITION MATERIAL - 6.74 GMS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avo

id:YES

Stability Condition to Avoid:HEAT, OPEN FLAMES, ELECTRICAL DISCHARGE

===== Disposal Considerations =====

Waste Disposal Methods:IF THE ROCKET MOTOR IS DAMAGED OR NEEDS TO BE DISPOSED OF FOR ANY REASON, IT SHOULD BE DISPOSED OF ONLY BY PERSONS QUALIFIED TO DISPOSE OF EXPLOSIVES, AT AN APPROVED SITE, UNDER APPROVED PROCEDURES. D OD 4145.26M, DOD 5154.45

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.