

ALLIEDSIGNAL INC. -- ACETONE --

==== Product Identification =====

Product ID:ACETONE
MSDS Date:07/01/1995
FSC:NIIN:Submitter:N EN
Status Code:A
MSDS Number: CKNTQ
=== Responsible Party ===
Company Name:ALLIEDSIGNAL INC.
Address:101 COLUMBIA ROAD
Box:1139
City:MORRISTOWN
State:NJ
ZIP:07962-1139
Country:US
Info Phone Num:201-455-4157
Emergency Phone Num:201-455-2000
Resp. Party Other MSDS Num.:FRFI-0003
CAGE:0B7T5
=== Contractor Identification ===
Company Name:HONEYWELL INTL INC
Address:101 COLUMBIA RD
Box:City:MORRISTOWN
State:NJ
ZIP:07960
Country:US
Phone:201-455-2000/800-707-4555
CAGE:0B7T5
Company Name:POLY SCIENTIFIC R&D CORP.
Address:70 CLEVELAND AVE
Box:City:BAY SHORE
State:NY
ZIP:11706
Country:US
Phone:516-586-0400
CAGE:67458

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

Ingred Name:ACETONE. (ACETONE NF, 2-PROPANONE, DIMETHYL KETONE,
DIMETHYLKETAL, DIMETHYLFORMALDEHYDE, PYROACETIC ACID, PYROACETIC
ETHER)
CAS:67-64-1
RTECS #:AL3150000
= Wt:99.7
Other REC Limits:NONE
OSHA PEL:750PPM
OSHA STEL:1000PPM
ACGIH TLV:750PPM
ACGIH STEL:1000PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

==== Hazards Identification =====

LD50 LC50 Mixture:LD 50 (ORAL, RAT) = 5800 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SKIN: PROLONGED EXPOSURE TO THE VAPOR
IRRITATES SKIN. REPEATED & PROLONGED CONTACT OF THE LIQUID W/SKIN
CAN CAUSE DRYNESS & ERYTHEMA (INFLAMMATION). EYES: ACETONE IS AN
IRRITANT TO THE EYES & MUCOUS M EMBRANES. INHALATION: VAPOR CONC OF
2500-3000 PPM CAUSES MINOR IRRIT OF EYES, NOSE & THROAT. INH OF
HIGHER CONC MAY CAUSE HEADACHE, NAUSEA, CONFUSION, DROWSINESS,
CONVULSIONS & COMA. INGESTION OF TOXI C DOSE CAN CAUSE GASTRO
IRRIT, NARCOSIS AND INJURY TO KIDNEYS & LIVER. ACETONE IS NOT
KNOWN TO PRODUCE CHRONIC OR CUMULATIVE SYSTEMIC EFFECTS.
Explanation of Carcinogenicity:INGREDIENTS FOUND ON ONE OF THE OSHA
DESIGNATED CARCINOGEN LISTS (NTP, IARC, OSHA): NO INGREDIENTS
LISTED.
Effects of Overexposure:N/P. ADVICE TO PHYSICIANS: A) TREATMENT OF
SEVERE SYSTEMIC INTOXICATION (NARCOSIS) FROM EITHER VAPOR EXPOSURE
OR INGESTION IS PRIMARILY SUPPORTIVE. ACETONE HAS MINIMALTOXICITY
ON OTHER ORGAN SYSTEMS AND IF THE VICTIM CAN BE SUPPORTED THROUGH
THE PERIOD OF CENTRAL NERVOUS SYSTEM DEPRESSION AND
RESPIRATORYFAILURE, THE PROGNOSIS IS GOOD. (1) FOLLOWING RECENT
INGESTION, ACETONE SHOULD BE REMOVED BU E MESIS (IF NOT PERFORMED

BY RESCUE PERSONNEL) AND/OR GASTRIC LAVAGE. (2) MECHANICALLY ASSISTED VENTILATION MAY BE NECESSARY. (3) IN SEVERE CASES, AN INITIAL PERIOD OF HYPOGLYCEMIA MAY REQUIRE CORRECTIO N BY INTRAVENOUS SOLUTIONS OF (MED COND)

Medical Cond Aggravated by Exposure:N/P. SIGNS & SYMPS (CONT): OF DEXTROSE. (4) IN SOME CASES, TRANSIENT HYPERGLYCEMIA - RESEMBLING DIABETES - HAS OCCURRED DURING THE RECOVERY PHASE AND LASTED FOR A FEW DAYS. TREATMENT WITH (OTHER INFO)

===== First Aid Measures =====

First Aid:SKIN: IMMED WASH W/SOAP & WATER WHILE REMOVING CONTAM CLTH. OBTAIN MED ATT IF ACETONE CAUSES SKIN CRACKING OR DERMATITIS. EYES: FLUSH W/ WATER FOR 15 MIN. GET PROMPT MED ATT. INHAL: REMOVE PATIENT FRO M CONTAM ATMOSPHERE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESP., PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFF, GIVE OXYGEN PROVIDED A QUALIFIED OPERATOR IS PRES. GET PROMPT MED ATT. INGES TION: IF SWALLOWED, DO NOT INDUCE VOMITING UNLESS ADVISED BY A PHYS-IF ADVISED & PATIENT CONSCIOUS, GIVE 2-4 GLASSES H2O & INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. GET PROMPT MED ATTN. (S IGNS & SYMS OF EXPOS)

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

Flash Point Method:TCC
Flash Point:=-17.C, 1.4F
Autoignition Temp:=465.C, 869.F
Lower Limits:2.5
Upper Limits:12.8
Extinguishing Media:SM FIRE: CARBON DIOXIDE OR DRY CHEM. LG FIRE: POLAR SOLV (ALCOHOL) TYPE FOAM. NORMAL FF FOAMS WILL BREAKDOWN & NOT EXTING ACETONE FIRES. WATER SPRAY WILL REDUCE INTENSITY OF FLAMES.
Fire Fighting Procedures:HANDLE AS A VERY FLAMMABLE LIQUID. USE WATER SPRAY TO KEEP FIRE-EXPOSED TANKS & CONTAINERS COOL. DO NOT ENTER FIRE AREA WITHOUT PROPER PERSONAL PROT EQUIP INCLUDING SELF-CONTAINED BREATHING APPARATUS. ACETONE/WATER SOLS HAVE FLASH POINTS WHEN THE ACETONE CONC IS GREATER THAN 8% (BY WT). THE FIRE PT IS HIGHER THAN THAT.
Unusual Fire/Explosion Hazard:ACETONE IS EXTREMELY FLAMMABLE & ITS VAPORS FORM EXPLOSIVE MIXTURES W/AIR. DANGEROUS WHEN EXPOSED TO HEAT, SPARKS, FLAME OR OXIDANTS. HANDLE AS VERY FLAMM LIQUID. USE H2O SPRAY TO KEEP FIRE-EXPOSED TA NKS & CONTAINERS COOL. DO NOT ENTER FIRE AREA W/OUT PROPER PERSONAL PROTECTIVE EQUIP INCL SCBA.

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

Spill Release Procedures:ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIP. ELIMINATE ALL SOURCES OF IGNITION IN THE AREA OF SPILL OR RELEASED VAPORS. ISOLATE THE SPILL AREA. PERMIT ONLY TRAINED PERS WEARING FULL PERS PROT EQ UIP TO ENTER SPILL AREA. TERMINATE LEAK IMMED, IF POSS. COLLECT SPILL IN WASTE CONT FOR DISP. FLUSH SPILL AREA THORO W/H2O; WASH CONTAM EQUIP THORO W/ WATER. FLUSHINGS & WASH WATER MUST (OTHER INFO)

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

Handling and Storage Precautions:HANDLING: (ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT). DANGER! EXTREMELY FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS, FLAME. ELEC GROUND ALL HANDLING EQUIP. KEEP CONT CLOSED. DO NOT USE AIR PR ESSURE TO UNLOAD ACETONE FROM CONTAINER. USE ADEQUATE VENT (SEE RESP PROT). OBSERVE (OTHER PRECS)
Other Precautions:HANDLING & STORAGE (CONT): OSHA REGULATIONS ON EXPOSURE LIMITS. AVOID PROLONGED OR FREQUENT REPEATED BREATHING OF VAPORS. AVOID PROLONGED OR REPEATED CONT W/ SKIN. WEAR SAFETY GLASSES W/ CUP-TYPE SHIE LDS OR CHEMICAL GOGGLES, FACE SHIELD, NATURAL RUBBER OR NEOPRENE GLOVES, HARD HAT & SAFETY SHOES IN NORM (HYGENIC PRACS)

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

Respiratory Protection:NONE REQ FOR CONC. <750 PPM. 750 TO <1000 PPM: NIOSH APPVD CHEM CART RESP W/ORGANIC VAPOR CART. 1,000 TO <12,500 PPM: NIOSH APPVD AIR-PURIFYING FULL FACE RESP EQUIP W/ORGANIC VAPOR CANISTER. 12,500 PP M & ABOVE: NIOSH APPVD FULL FACE SUPPLIED AIR RESP OPERATED IN PRESS DEMAND OR OTHER POS PRESS MODE. ESCAPE: NIOSH APPVD AIR PURIF FULL FACE RESP OR SCBA.
Ventilation:GOOD VENT IS ESSEN IN AREAS WHERE ACETONE IS HANDLED TO PVNT THE ACCUM OF EXPLO MIXTURES. EXPLO-PROOF FANS SHOULD BE USED IN MECHANICAL TYPE SYS. (SUPP S&H)
Protective Gloves:NATURAL RUBBER OR NEOPRENE GLOVES.

Eye Protection:SAFETY GLASSES WITH CUP-TYPE FACE SHIELDS OR CHEM GOGGLES AND FACE SHIELD.
Other Protective Equipment:SAFETY SHOES & HARD HAT. NATL RUBBER OR NEOPRENE JACKET, TROUSERS & SHOES/BOOTS. EMERG EYE WASH FOUNTAINS & FIRE BLANKETS. WARNING SIGNS. RUBBER CARRIER FOR GLASS CONTS. CONT LENSES SHOULD NOT BE WORN.
Work Hygienic Practices:OTHER PRECS (CONT): HANDLING OPS. WHENEVER HANDLING OPS ARE SUCH THAT UNAVOID GROSS CONT W/ LIQUID IS LIKELY, THE HANDLER SHOULD WEAR FULL PPE & CLOTHING COMPRISING CHEMICAL GOGGLES, (ECOLOGICAL INFO)
Supplemental Safety and Health
CHEM FORM: CH3COCH3. FLAME PROP RATE (SOLIDS): NOT APPLIC TO LIQUIDS. OSHA FLAMMABILITY CLASS: FLAMMABLE LIQUID. VENT (CONT): UNDER NORM CONDS, THE ATMOS CONC OF ACETONE VAPOR MUST BE KEPT LOW ENOUGH TO PVNT IRRIT OF MUCOUS MEMBS & DISCOMFORT TO WORKERS. UNDER ABNORM CONDS, SPECIAL EMERG EQUIP MAY BE NECESSARY.

===== Physical/Chemical Properties =====

Boiling Pt:=56.2C, 133.2F
Melt/Freeze Pt:=-95.2C, -139.2F
Vapor Pres:181 MM HG@20C
Vapor Density:AIR=1 2.0
Spec Gravity:(WATER = 1.0) 0.79@20.4C
pH:7 APPROX.
Evaporation Rate & Reference:>7.0, BUTYL ACETATE = 1
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS LIQUID WITH SWEET PUNGENT ODOR.
Percent Volatiles by Volume:100% @ 20C

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:NORMALLY STABLE. KEEP AWAY FROM HEAT, SPARKS, AND FLAME.
Hazardous Decomposition Products:COMPLETE COMBUSTION RESULTS IN FORMATION OF NITRON DIOXIDE & WATER VAPOR. INCOMPLETE COMBUSTION CAN YIELD CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:IMMEDIATE (ACUTE) EFFECTS: ORAL (MOUSE) LD50=3,000 MG/KG. ORAL (RAT) LD50=5,800 MG/KG. ORAL (RABBIT) LD50=5,340 MG/KG. EYE (HUMAN)=500PPM. SKIN (RABBIT) 500 MG/24 HRS. REACTION MILD. DELAYED (SUCHRO NIC & CHRONIC) EFFECTS: ACETONE IS NOT KNOWN TO PRODUCE CHRONIC OR CUMULATIVE SYSTEMIC EFFECTS. OTHER DATA: BIOLOGICAL ACTION LEVEL: 270 MG/L IN URINE AT END OF WORKSHIFT = EXCESSIVE EXPOSURE TO ACET ONE. EXPOSURE GUIDELINES: OTHER EXPOSURE LIMITS FOR THE DECOMPOSITION PRODUCTS NORMALLY ASSOCIATED WITH PRODUCT USE ARE AS FOLLOWS: NONE.

===== Ecological Information =====

Ecological:DEGRADABILITY: A) BIOCHEMI OXYGEN DEMAND (BOD LB/LB):ACCOMATED BACTERIA: 0.31 - 1.63. B). CHEM OXYGEN DEMAND (COD LB/LB): 1.12 - 1.07. OCTANOL/WATER PARTITION COEFF: 0.58. WORK HYG PRACS (CONT): FACE SHIELD, HARD HAT, & NATL RUBBER/NEOPRENE JACKET, TROUSERS, GLOVES & SHOES/BOOTS. WASH CONTAM CLOTHING & PPE BEFORE REUSE. STORAGE RECOMM: PROT CONTAINER AGAINST PHYS DAMAGE. STORE I.A.W. OSHA REG 29 CFR 1910.106 IN A COOL, WELL-VENT LOCATION EQUIP W/ AUTO SPRINKLERS OR FIRE EXTING SYS. KEEP AWAY FRM SOURCES OF IGNIT & OXIDIZING MATERIALS. "EMPTY" CONTS, UNLESS THOROUGHLY CLEANED, MUST BE ASSUME D TO HAVE THE SAME HAZARDS AS FULL ONES.

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

Waste Disposal Methods:DISPOSE IAW FEDERAL, STATE, AND LOCAL REGULATIONS. UNUSED PRODUCT IS A RCRA WASTE (D001 OR U002) IF DISCARDED. THE WASTE MATERIAL SHOULD BE TREATED AND/OR DISPOSED OF AT A SITE AUTHORIZED TO HANDLE HA ZARDOUS CHEMICAL WASTE. APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY AUTHORITIES SHOULD BE CONTAC TED BEFORE DISCHARGE, TREATMENT OR (TRANSPOR INFO)

===== MSDS Transport Information =====

Transport Information:US DOT HAZARD CLASS: CLASS 3 - FLAMMABLE LIQUID, PACKING GRP II. US DOT ID NUMBER: UN 1090. FOR ADDITIONAL INFO ON SHIPPING REGS AFFECTING THIS MAT'L, CONTACT THE INFO NUMBER FOUND

ON THE FIRST PAGE . WASTE DISP (CONT): DISPOSAL OF WASTE MATERIAL. THE INFO OFFERED HERE IS FOR THE PRODUCT AS SHIPPED. USE AND/OR ALTERATIONS TO THE PRODUCT SUCH AS MIXING WITH OTHER MATERIALS MAY SIGNIFICANTLY CHANGE THE CHARACTERISTICS OF THE MATERIAL & ALTER THE RCRA CLASSIFICATION & THE PROPER DISPOSAL METHOD.

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Regulatory Information
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SARA Title III Information: SARA TITLE III / CERCLA: RQS & TPQS: REPORTABLE QTYS (RQ) AND/OR THRESHOLD PLANNING QTYS (TPQ) EXIST FOR THE FOLLOWING INGREDIENTS: ACETONE: SARA/CERCLA RQ (LBS): 5000; SARA EHS TPQ (LBS): NONE. SPILL/RELEASE RESULTING IN LOSS OF ANY INGREDIENT AT OR ABOVE ITS RQ REQUIRES IMMEDIATE NOTIFICATION TO THE NATL RESP CTR (1-800-424-8802) & TO YOUR LOCAL EMERGENCY PLANNING COMMITTEE. SARA 313 HAZARD CLASS: IMMEDIATE: FIRE. SARA 313 TOXIC CHEMICALS: THE FOLLOWING INGREDIENTS ARE SARA 313 "TOXIC CHEMICALS", CAS #S & WT % ARE FOUND IN INGREDIENT SECTION: NO INGREDIENTS LISTED IN THIS SECTION.

Federal Regulatory Information: TOXIC SUBSTANCES CONTROL ACT (TSCA): TSCA INVENTORY STATUS: ACETONE LISTED ON TSCA INVENTORY. OTHER TSCA ISSUES: SUBJECT TO EXPORT NOTIFICATION. ADDITIONAL REGULATORY INFORMATION: ACETONE IS SUBJECT TO THE CHEMICAL DIVERSION & TRAFFICKING ACT OF 1988 AND SUBJECT TO CERTAIN RECORD KEEPING AND REPORTING REQUIREMENTS (21 CFR 1310 AND 1313). ACETONE IS NOT REGULATED AS A VOC UNDER THE CLEAN AIR ACT.

State Regulatory Information: IN ADDITION TO THE INGREDIENTS FOUND IN THE INGREDIENT SECTION, THE FOLLOWING ARE LISTED FOR STATE RIGHT-TO-KNOW PURPOSES: NO INGREDIENTS LISTED IN THIS SECTION. ACETONE IS NOT ON THE CALIFORNIA PROP 65 LIST. WHMIS CLASSIFICATION (CANADA): CLASS 8 DIVISION 2. FOREIGN INVENTORY STATUS: CANADIAN DSL (DOMESTIC SUBSTANCES LIST), EINECS (EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES), AUSTRALIAN INVENTORY, JAPANESE INVENTORY. ADDITIONAL INFO: PREVIOUS MSDS ISSUE DATE: SEPTEMBER 19 93. NFPA HAZARD RATINGS: 1-3-0 (H-F-R). HMIS HAZARD RATINGS: 1-4-0 (H-F-R)

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Other Information
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