

DOW CHEMICAL U S A -- ACETONE,SYNTHETIC - ACETONE,TECHNICAL  
MATERIAL SAFETY DATA SHEET  
NSN: 6810002811864  
Manufacturer's CAGE: 71983  
Part No. Indicator: A  
Part Number/Trade Name: ACETONE,SYNTHETIC

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General Information  
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Item Name: ACETONE,TECHNICAL  
Company's Name: DOW CHEMICAL U S A  
Company's Street: 2020 DOW CENTER BARSTOW BLDG  
Company's City: MIDLAND  
Company's State: MI  
Company's Country: US  
Company's Zip Code: 48640  
Company's Emerg Ph #: 517-636-4400  
Company's Info Ph #: 517-636-4400  
Distributor/Vendor # 1: AMJAY CORPORATION (713-492-2000)  
Distributor/Vendor # 1 Cage: 64184  
Record No. For Safety Entry: 007  
Tot Safety Entries This Stk#: 010  
Status: SE  
Date MSDS Prepared: 06JUL89  
Safety Data Review Date: 01APR91  
Supply Item Manager: CX  
MSDS Serial Number: BJRDP  
Specification Number: O-A-51G  
Hazard Characteristic Code: F2  
Unit Of Issue: DR  
Unit Of Issue Container Qty: 54 GALLONS  
Type Of Container: DRUM  
Net Unit Weight: 355 POUNDS

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: ACETONE (SARA III)  
Ingredient Sequence Number: 01  
Percent: 99.5  
NIOSH (RTECS) Number: AL3150000  
CAS Number: 67-64-1  
OSHA PEL: 1000PPM  
ACGIH TLV: 750PPM/1000STEL;9293  
Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics  
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Appearance And Odor: COLORLESS LIQUID, SWEETISH ODOR.  
Boiling Point: 133F,56C  
Melting Point: 140F FZ.PT.  
Vapor Pressure (MM Hg/70 F): 182  
Vapor Density (Air=1): 2  
Specific Gravity: 0.788  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: 6 (BUTYL ACETATE = 1)  
Solubility In Water: COMPLETE  
Percent Volatiles By Volume: 100  
Viscosity: UNKNOWN  
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data  
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Flash Point: 0F,-18C  
Flash Point Method: TCC  
Lower Explosive Limit: 2.6

Upper Explosive Limit: 12.8

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS  
WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire And Expl Hazrds: COMBUSTION OR HEAT OF FIRE MAY PRODUCE  
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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Reactivity Data  
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Stability: YES

Cond To Avoid (Stability): EXTREMELY HIGH TEMPERATURES

Materials To Avoid: STRONG OXIDIZING AGENTS

Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE, INCOMPLETELY  
BURNED CARBON PRODUCTS.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT APPLICABLE  
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Health Hazard Data  
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LD50-LC50 Mixture: LD50 (ORAL RAT) IS > 6000 MG/KG

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: HEALTH HAZARDS- ACUTE: MODERATE EYE  
IRRITATION AND MODERATE CORNEAL INJURY. INHALATION MAY CAUSE ANESTHETIC OR  
NARCOTIC EFFECTS. CHRONIC: EYES AND RESPIRATORY TRACT IRRITATION.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS  
LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Signs/Symptoms Of Overexp: EYES: MODERATE IRRITATION, CORNEAL INJURY.  
SKIN: IRRITATION, DRYING, FLAKING. INHALATION: UPPER RESPIRATORY TRACT  
IRRITATION, HEADACHE, DIZZINESS, DROWSINESS. INGESTION: NO HAZARD  
ANTICIPATED FROM INGESTION INCIDENTAL TO INDUSTRIAL EXPOSURE. IF INGESTED  
INTENTIONALLY, SEVERE HEARTBURN-LIKE SYMPTOMS, AND NAUSEA.

Med Cond Aggravated By Exp: NONE NOTED.

Emergency/First Aid Proc: EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR  
AT LEAST 15 MINUTES. SEE DOCTOR. SKIN: WASH OFF IN FLOWING WATER OR SHOWER.  
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO- MOUTH  
RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.  
INGESTION: INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED. SEE DOCTOR.  
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Precautions for Safe Handling and Use  
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Steps If Matl Released/Spill: SMALL SPILL: ALLOW TO EVAPORATE IF IT CAN BE  
DONE SAFELY. OTHERWISE, SOAK UP IN ABSORBENT MATERIAL AND SCOOP UP INTO  
DRUMS. LARGE SPILL: DIKE AND PUMP INTO DRUMS USING AIR-OPERATED OR OTHER  
NON-SPARKING PUMP. PREVENT FROM ENTERING DRAINS AND SEWERS.

Neutralizing Agent: NOT APPLICABLE

Waste Disposal Method: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE  
OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.  
MANUFACTURER RECOMMENDS INCINERATION.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL VENTILATED AREA,  
AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP  
CONTAINERS TIGHTLY CLOSED.

Other Precautions: DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID  
PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH  
ADEQUATE VENTILATION. USE SPARK-RESISTANT TOOLS.  
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Control Measures  
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Respiratory Protection: NONE NORMALLY REQUIRED WITH ADEQUATE VENTILATION.  
NIOSH/MSHA-APPROVED RESPIRATOR WITH ORGANICS CARTRIDGE OR APPROVED  
POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS AS APPROPRIATE FOR

EXPOSURE OF CONCERN.

Ventilation: LOCAL EXHAUST VENTILATION. USE EXPLOSION-PROOF EQUIPMENT.  
USE ONLY WITH ADEQUATE VENTILATION.

Protective Gloves: RUBBER.

Eye Protection: CHEMICAL GOGGLES.

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Suppl. Safety & Health Data: USE ONLY WITH ADEQUATE VENTILATION. LETHAL  
DOSES MAY EXIST IN AREAS WITH POOR VENTILATION.

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Transportation Data  
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Trans Data Review Date: 91091  
DOT PSN Code: ABF  
DOT Proper Shipping Name: ACETONE  
DOT Class: 3  
DOT ID Number: UN1090  
DOT Pack Group: II  
DOT Label: FLAMMABLE LIQUID  
IMO PSN Code: ADF  
IMO Proper Shipping Name: ACETONE  
IMO Regulations Page Number: 3102  
IMO UN Number: 1090  
IMO UN Class: 3.1  
IMO Subsidiary Risk Label: -  
IATA PSN Code: ACM  
IATA UN ID Number: 1090  
IATA Proper Shipping Name: ACETONE  
IATA UN Class: 3  
IATA Label: FLAMMABLE LIQUID  
AFI PSN Code: ACM  
AFI Prop. Shipping Name: ACETONE  
AFI Class: 3  
AFI ID Number: UN1090  
AFI Pack Group: II  
AFI Label: FLAMMABLE LIQUID  
AFI Basic Pac Ref: 7-7

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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 01APR91  
MFR Label Number: NONE  
Label Status: F  
Common Name: ACETONE,SYNTHETIC  
Chronic Hazard: NO  
Signal Word: DANGER!  
Acute Health Hazard-Moderate: X  
Contact Hazard-Slight: X  
Fire Hazard-Severe: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: HEALTH HAZARDS- ACUTE: MODERATE EYE IRRITATION  
AND MODERATE CORNEAL INJURY. INHALATION MAY CAUSE ANESTHETIC OR NARCOTIC  
EFFECTS. CHRONIC: EYES AND RESPIRATORY TRACT IRRITATION. STORE IN A COOL,  
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IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS  
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LARGE AMOUNTS ARE INGESTED.  
Protect Eye: Y

Protect Skin: Y  
Label Name: DOW CHEMICAL U S A  
Label Street: 2020 DOW CENTER BARSTOW BLDG  
Label City: MIDLAND  
Label State: MI  
Label Zip Code: 48640  
Label Country: US  
Label Emergency Number: 517-636-4400  
Year Procured: 1989

**ALL CHEMICAL PRODUCTS MAY BE HAZARDOUS IF IMPROPERLY USED, HANDLED OR STORED. ALWAYS ENSURE THAT YOU HAVE CONSULTED THE LATEST MATERIAL SAFETY DATA SHEET (MSDS) FOR ANY CHEMICAL PRODUCT BEFORE USING, HANDLING OR STORING A CHEMICAL PRODUCT, AND THAT YOU ARE WEARING AND USING ALL APPROPRIATE SAFETY EQUIPMENT.**

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