

ARCO CHEMICAL CO -- N-METHYL PYRROLIDONE -- 6810-01-383-6261

===== Product Identification =====

Product ID:N-METHYL PYRROLIDONE

MSDS Date:02/22/1996

FSC:6810

NIIN:01-383-6261

MSDS Number: CGLXD

=== Responsible Party ===

Company Name:ARCO CHEMICAL CO

Address:3801 WEST CHESTER PIKE

City:NEWTOWN SQUARE

State:PA

ZIP:19073

Country:US

Info Phone Num:800-321-7000

Emergency Phone Num:610-353-8300/800-424-9300(CHEMTREC)

CAGE:ARCO C

=== Contractor Identification ===

Company Name:ARCO CHEMICAL CO

Address:3801 WEST CHESTER PIKE

Box:City:NEWTON SQUARE

State:PA

ZIP:19073

Country:US

Phone:800-321-7000

CAGE:ARCO C

Company Name:PHOENIX INDUSTRIES INC

Address:1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA

ZIP:23222

Country:US

Phone:804-264-5183/FAX: 264-5535

CAGE:0YED2

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

Ingred Name:N-METHYL-2-PYRROLIDINONE/N-METHYLPYRROLIDONE

CAS:87

2-50-4
RTECS #:UY5790000
Fraction by Wt: 99.9%
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN,
GASTROINTESTINAL TRACT. ACUTE- EYES:MAY CAUSE MODERATE IRRITATION &
BURNING SENSATION. SKIN:MAY CAUSE DELAYED IRRITATION & BLIS
TERING.

INHALE:NO SIGNIFICANT HEALTH HAZARDS ARE EXPECTED. ORAL:MAY BE
SLIGHTLY HEALTH HAZARD IF INGESTED IN LARGE AMOUNTS. CHRONIC-
DEFATTING, CONTACT DERMATITIS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, NAUSEA, VOMITING, TEARING, BURNING
SENSATION, PAIN, BLISTERING, REDNESS, SWELLING

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS SUCH AS ALLERGIES, ECZEMA MAY BE MORE SUSCEPTIBLE TO THE
EFFECTS OF THIS PRODUCT

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First Aid Measures
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH
AIR. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS
OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO NOT INDUCE VOMITING. IF
CONSCIOUS, DRINK PLENTY OF WATER. SEEK IMMEDIATE MEDICAL
ATTENTION. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS. DO NOT GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:CC

Flash Point:199F,93C

Autoignition Temp:Autoignition Temp Text:518F

Lower Limits:1.3%

Upper Limits:9.5%

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE (CO2), ALCOHOL FOAM
OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA
WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:VA

POR IS HEAVIER THAN AIR AND CAN TRAVEL
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.
CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA.
ABSORB ON SAND, VERMICULITE OR SIMILAR MATERIAL. SWEEP UP AND PLACE
IN AN APPROPRIATE CONTAINER FOR DISPOSAL. WASH CONTAMINATED SPILL
AREA WITH DETERGENT AND WATER.

Neutralizing Agent:NO
T RELEVANT

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

Handling and Storage Precautions:STORE AWAY FROM IGNITION SOURCES &
INCOMPATIBLE MATERIALS.
Other Precautions:WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING
AND BEFORE EATING, DRINKING, SMOKING. KEEP OUT OF REACH OF
CHILDREN. DO NOT TAKE INTERNALLY. DO NOT GET IN EYES OR ON SKIN.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE
VENTILATION
CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A
NIOSH-APPROVED RESPIRATOR.

Ventilation:ADEQUATE

Protective Gloves:LATEX FOR REPEATED/PROLONGED CONTACT

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, PROTECTIVE
CLOTHING

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC:V4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:396F,202C

Melt/Freeze Pt:M.P/F.P Text:-11F,-24C

Vapor Pres:0.3 @ 68F

Vapor Density:3.4

Spec Gravity:1.028

pH:7.7- 8

Evaporation Rate & Reference:0.03 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR LIQUID - AMINE LIKE ODOR

Percent Volatiles by Volume:NEGLIG

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING A

GENTS, STRONG REDUCING AGENTS

Stability Condition to Avoid:HEAT, SPARKS, FLAME, OTHER SOURCES OF
IGNITION

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND
OTHER TOXIC GASES MAY BE FORMED.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS. CONTRACT WITH A LICENSED WASTE DISPOSAL
FACILITY.

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