

BP NORTH AMERICA PETROLEUM INC -- UREA PRILL-INDUSTRIAL GRADE -- 6810-00-782-6521  
===== Product Identification =====

Product ID:UREA PRILL-INDUSTRIAL GRADE  
MSDS Date:07/29/1988  
FSC:6810  
NIIN:00-782-6521  
MSDS Number: BNTLK  
=== Responsible Party ===  
Company Name:BP NORTH AMERICA PETROLEUM INC  
Address:550 WESTLAKE PARK BLVD SUITE 1800  
City:HOUSTON  
State:TX  
ZIP:77079-2608  
Country:US  
Info Phone Num:80  
0-537-9720/713-558-3443  
Emergency Phone Num:800-321-8642/800-424-9300(CHEMTREC)  
Preparer's Name:RIGNEY  
CAGE:0BF86  
=== Contractor Identification ===  
Company Name:BP NORTH AMERICA PETROLEUM INC  
Address:550 WESTLAKE PARK BLVD SUITE 1800  
Box:City:HOUSTON  
State:TX  
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Phone:713-558-3443  
CAGE:0BF86

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

Ingred Name:UREA  
CAS:57-13-6  
RTECS #:YR6250000  
Fraction by Wt: >= 99.9%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:

5 MG/M3 RESP. (MFR)  
ACGIH TLV:10 MG/M3 TDUST (MFR)

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

LD50 LC50 Mixture:LDL0 (DOMESTIC ANIMAL ORAL) IS 511 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-ORAL:SLIGHTLY TOXIC.MAY CAUSE GI  
IRRITATION,NAUSEA,VOMITING & DIARRHEA.SKIN:PROLONGED/REPEATED  
CONTACT MAY CAUSE REDDENING,ITCHING & INFLAMMATION.EYE:SLIGHTLY

IRRITATING.INHALE:MAY CAUSE RESPIRATORY TRACT IRRITATION.UREA IS  
AN END PRODUCT OF PROTEIN METABOLISM & IS EXCRETED IN THE  
URINE.CHRONIC-NONE KNOWN.

Effects of Overexposure:LIGHTLY TOXIC IF INGESTED. MAY CAUSE GI  
IRRITATION, NAUSEA, VOMITING & DIARRHEA. PROLONGED/REPEATED SKIN  
CONTACT MAY CAUSE REDDENING, ITCHING & INFLAMMATION. SLIGHTLY  
IRRITATING TO EYES. IF INHALE, MAY CAUSE RESPIRATORY TRACT  
IRRITATION. UREA IS AN END PRODUCT OF PROTEIN METABOLISM & IS  
EXCRETED  
IN THE URINE.

Medical Cond Aggravated by Exposure:ASTHMATICS EXPOSED TO DUST MAY HAVE  
DIFFICULTY IN BREATHING.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:WASH WITH  
SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS  
OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.  
ORAL:DO NOT INDUCE VOMITING. KEEP AFFECTED PERSON WARM AND AT  
REST. GET MEDICAL ATTENTION.

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

Flash Point:NONE  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL  
FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED  
CONTAINERS.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:MAY FORM POISONOUS/IRRITATING GAS, FUMES  
OR VAPORS. MAY F

ORM EXPLOSIVE MIXTURES IF CONTAMINATED WITH STRONG ACIDS. UREA SOLUTIONS MAY DECOMPOSE TO TOXIC HCN.

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

Spill Release Procedures:WEAR APPROVED RESPIRATOR. STOP LEAK IF POSSIBLE. VACUUM OR SWEEP UP SPILLAGE. AVOID CREATING DUST. PLACE SPILLAGE IN APPROPRIATE CONTAINER FOR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL SITE.

Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage =====  
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Handling and Storage Precautions:STORAGE-STORE IN TIGHTLY CLOSED CONTAINER IN COOL, DRY, ISOLATED, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLES.

Other Precautions:EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE WITHOUT ADEQUATE PRECAUTIONS. AVOID CONTAMINATION WITH OTHER "LOOK-ALIKE" MATERIALS THAT MAY PRODUCE AN EXPLOSION HAZARD. AVOID GENERATING DUSTS. AVOID BREATHING DUSTS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF WORKPLACE EXPOSURE LIMIT IS EXCEEDED, A NIOSH APPROVED AIR SUPPLIED RESPIRATOR OR DUST RESPIRATOR IS ADVISED.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:BUTYL RUBBER

Eye Protection:DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, APPROPRIATE LABORATORY COAT TO COVER EXPOSED SKIN. DO NOT WEAR CONTACT LENSES.

Work Hygienic Practices:DO NOT PERMIT EATING, DRINKING OR SMOKING NEAR THIS MATERIAL. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:DECOMPOSES

Melt/Freeze Pt:M.P/F.P Text:271F,133C

Solubility in Water:119 % @ 25C

Appearance and Odor:WHITE GRANULES WHITE LITTLE/NO ODOR. AMMONIA ODOR UPON LONG STANDING

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

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Stability Indicator/Materials to Avoid: YES

STRONG ACIDS

Stability Condition to Avoid: STABLE UNDER NORMAL CONDITIONS OF USE.

AVOID EXCESSIVE HEAT. IT MAY CAUSE DECOMPOSITION TO VERY TOXIC HYDROGEN CYANIDE.

Hazardous Decomposition Products: COMBUSTION MAY FORM TOXIC GASES SUCH AS HYDROGEN CYANIDE, NITROGEN OXIDES AND CARBON MONOXIDE. AVOID CONTACT WITH ACIDS.

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

Waste Disposal Methods: THE TRANSPORTATION, STORAGE, TREATMENT AND

DISPOSAL OF THIS WASTE MATERIAL MUST BE CONDUCTED IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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