

ASHLAND CHEMICAL CO -- NITRIC ACID 42 DEGREE -- 6810-00-237-2918

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

Product ID:NITRIC ACID 42 DEGREE

MSDS Date:01/06/1998

FSC:6810

NIIN:00-237-2918

MSDS Number: BDLXQ

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:614-790-3333

Emergency Phone Num:606-324-1133

Resp. Party Other MSDS Num.:999.0001000-008.003

CAGE:5A188

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Address:5200 PAUL BLAZEL MEMORIAL PARKWAY

Box:City:DUBLIN

State:OH

ZIP:43017

Country:US

Phone:614-889-4505

CAGE:5A188

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

Ingred Name:NITRIC ACID (SARA III)

CAS:7697-37-2

RTECS #:QU5775000

= Wt:67.

OSHA PEL:2 PPM/4 STEL

ACGIH TLV:2 PPM/4 STEL; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:31.

Maxumum % Wt:35.

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Hazards Identification =====

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:EYE: CAN CAUSE PERMANENT EYE INJURY.

CAN INJURE CORNAE & CAUSE BLINDNESS. SKIN: CAN CAUSE PERMANENT SKIN DAMAGE. SWALLOWING: SWALLOWING MATERIAL MAY BE HARMFUL. MAY CAUSE BURNS & DESTROY TISSUE IN MOUTH, THROAT & DIGESTIVE TRACT. LOW BLOOD PRESSURE & SHOCK MAY OCCUR AS RESULT OF SEVERE TISSUE INJURY. INHALATION:

BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING MAY BE HARMFUL OR FATAL.

Explanation of Carcinogenicity:NOT PROVIDED

Effects of Overexposure:EYES: STINGING, TEARING, REDNESS & SWELLING OF EYES. SKIN: REDNESS, BURNING & SWELLING OF SKIN, BURNS & OTHER SKIN DAMAGE. SWALLOWING: SEVERE STOMACH & INTESTINAL IRRITATION ( NAUSEA, VOMITING, DIARRHEA), ABDOMINAL PAIN, VOMITING OF BLOOD.

Medical Conditions Aggravated by Exposure:PREEXISTING CONDITIONS OF FOLLOWING ORGANS (OR ORGAN SYSTEMS)

MAY BE AGGRAVATED BY EXPOSURE TO MATERIAL: SKIN, LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS).

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

First Aid:EYES: IMMEDIATELY FLUSH GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. IF SYMPTOMS DEVELOP DUE TO VAPOR EXPOSURE MOVE FROM EXPOSURE. GET MEDICAL HELP. SKIN: REMOVE CONTAMINATED CLOTHES. FLUSH AREA WITH LARGE AMOUNTS OF WATER. IF SKIN IS DAMAGED, GET MEDICAL HELP. IF SYMPTOMS CONTINUE, GET MEDICAL HELP. LAUNDER CLOTHES BEFORE REUSE. INGESTION: GET IMMEDIATE MEDICAL HELP. DO NOT INDUCE VOMITING. IF CONSCIOUS, RINSE MOUTH WITH WATER & GIVE WATER OR MILK TO DRINK. INHALATION: MOVE TO FRESH AIR. GET IMMEDIATE MEDICAL HELP. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. KEEP WARM & QUIET.

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

Lower Limits:NOT APPLICABLE

Upper Limits:NOT APPLICABLE

Extinguishing Media:WATER

## R FOG

Fire Fighting Procedures:WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR & CHEMICAL RESISTANT PERSONAL PROTECTIVE EQUIPMENT. SEE PERSONAL PROTECTIVE EQUIPMENT SECTION OF THIS MSDS.

Unusual Fire/Explosion Hazard:REACTS WITH MOST METALS TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURE WITH AIR.

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

Spill Release Procedures:SMALL: COVER WITH SODIUM BICARBONATE OR SODA ASH/FLAKED LIME MIX (50-50). MIX WITH WATER TO FORM SLURRY. SCOOP UP SLURRY & WASH SITE WITH SODA ASH SOLUTION. LARGE: PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER WATERS BODIES. IF RUN-OFF OCCURS, NOTIFY AUTHORITIES. DIKE TO PREVENT SPREAD. PUMP TO SALVAGE TANK. EXCLUDE FROM AREA PERSONS NOT WEARING PROPER PROTECTIVE EQUIPMENT.

Neutral

izing Agent:SODIUM BICARBONATE OR SODA ASH/FLAKED LIME MIXTURE (50-50)

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

Handling and Storage Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIES CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARDOUS PRECAUTIONS GIVEN IN DATA SHEET MUST BE OBSERVED.

Other Precautions:ADDITION OF WATER RELEASES HEAT WHICH CAN RESULT IN VIOLENT BOILING & SPLATTERING. ALWAYS ADD SLOWLY & IN SMALL

AMOUNTS. NEVER USE HOT WATER. NEVER ADD WATER TO ACIDS. ALWAYS ADD ACIDS TO WATER.

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

Respiratory Protection:IF EXPOSURE LIMITS ARE EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS ( SEE YOUR INDUSTRIAL HYGIENE

NIST). ENGINEERING OR

ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

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

Protective Gloves:RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

Eye Protection:CHEMICAL SPLASH GOGGLES & FACE SHIELD (8 IN MIN)

Other Protective Equipment:TO PREVENT SKIN CONTACT WEAR IMPERVIOUS CLOTHING & BOOTS.

Work Hygienic Practices:NOT PROVIDED

Supplemental Sa  
fety and Health

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

HCC:C1

Boiling Pt:=117.8C, 244.F

Vapor Pres:6.8 MMHG @ 68F

Vapor Density:> 1.0

Spec Gravity:1.408

Evaporation Rate & Reference:SLOWER THAN ETHER

Solubility in Water:COMPLETE

Appearance and Odor:FUMING WHITE TO YELLOW LIQUID

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ORGANIC MATERIALS, REDUCING AGENTS, STRO  
NG ALKALIES. REACTS WITH MOST

METALS TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES  
WITH AIR.

Hazardous Decomposition Products:NITROGEN COMPOUNDS, ACID FUMES

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

Toxicological Information:NO DATA

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

Ecological:NO DATA

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

Waste Disposal Methods:SCOOP UP AND PLACE IN SUITABLE CONTAI

NER OR PUMP

TO SALVAGE TANK TO AWAIT PROPER DISPOSAL. DISPOSE OF IN ACCORDANCE  
WITH LOCAL, STATE & FEDERAL REGULATIONS.

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

Transport Information:DOT DESCRIPTION: NITRIC ACID, 8, UN2031, II

===== Regulatory Information =====

SARA Title III Information:SARA 302 TPQ = 1000 LB, RQ = 1000 LB.

SECTION 311/312 CLASS: IMMEDIATE. NITRIC ACID IS A SARA 313  
CHEMICAL.

Federal Regulatory In

formation:CERCLA RQ = 1000 LB

State Regulatory Information:CALAFORNIA PROP 65: NOT APPLICABLE. NITRIC  
ACID IS A NEW JERSEY & A PENNSYLVANIA RIGHT TO KNOW CHEMICAL.

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