

NITRIC ACID ACS GRADE

MSDS Number

BBCJC

National Stock Number

6810-00D000122

Product Name

NITRIC ACID ACS GRADE

Manufacturer

HACH CO

Product Identification

Product ID:NITRIC ACID ACS GRADE

MSDS Date:05/08/1992

FSC:6810

NIIN:00D000122

MSDS Number: BBCJC

Responsible Party

HACH CO.

100 DAYTON RD.

LOVELAND , CO 80539

US

Emergency Phone: 800-227-4224

Info Phone: 800-227-4224

Preparer: REGULATORY AFFAIRS DEPT

Cage: 91224

Contractor

O & S SUPPLY INC.

1564

SUMTER, SC 29105

US

803-775-7323

Cage: 3N991

Ingredients

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 30 - 35%

NITRIC ACID (SARA III)

CAS: 7697-37-2

RTECS: QU5775000

Fraction By Weight: 70%

OSHA PEL2 PPM

ACGIH TLV: 2 PPM/4 STEL; 9394

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 430 MG/KG

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EXPOSURE MAY BE CORROSIVE TO EYES, SKIN AND RESPIRATORY TRACT. SWALLOWING MAY CAUSE SEVERE GI TRACT IRRITATION, BURNS TO MUCOUS MEMBRANES OF MOUTH-THROAT AND ESOPHAGUS. CHRONIC: PROLONGED OR RE PEATED EXPOSURE MAY CAUSE CHRONIC PULOMNARY DISEASE OR BRONCHITIS, TOOTH EROSION.

Explanation of Carcinogenicity:NITRIC ACID IS NOT LISTED AS A CARCINOGEN BY NTP OR IARC.

Effects of Overexposure:INHALED: DRYNESS OF NOSE & THROAT, COUGH, CHEST PAIN, DYSPNEA. EYES: BURNS, BLINDNESS, PAIN, TEARING, BLURRED VISION, REDNESS, SWELLING. SKIN: DEEP ULCERS, SKIN STAINED BRIGHT YELLOW TO YELLOW-BROWN, BURNS, REDNESS, BLISTERS. INGESTED: SEVERE PAIN IN MOUTH-THROAT-STOMACH, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:EYE, SKIN OR RESPIRATORY DISORDERS.

First Aid

First Aid:INHALED:REMOVE TO FRESH AIR.GIVE ARTIFICIAL RESPIRATIONIF BREATHING STOPPED.GIVE OXYGENIF BREATHING DIFFICULT.SKIN:REMOVE CONTAMINATED CLOTHES.FLUSH WITH LOTS OF WATER.SEE DOCTOR IF BURNS DEVELOP.EYS: FLUSH WITH LOTS OF WATER FOR 15 MINUTES,HOLD LIDS OPEN.GET IMMEDIATE MEDICAL ATTENTION.INGESTED:DO NOT INDUCE VOMITING.IF CONSCIOUS,GIVE 1-2 GLASSES WATER/MILK.GET IMMEDIATE MEDICAL HELP.

Fire Fighting

Extinguishing Media:WATER MIST OR SPRAY

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:MAY EMIT TOXIC FUMES; MAY REACT EXPLOSIVELY WITH OXIDIZABLE MATERIALS.

Accidental Release

Spill Release Procedures:DILUTE WITH EXCESS WATER, NEUTRALIZE WITH SODA ASH TO BETWEEN A PH OF 6-9 AND FLUSH TO DRAIN WITH EXCESS OF WATER. ANY DISCHARGE MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Neutralizing Agent:SODA ASH OR 20% SODIUM BICARBONATE SOLUTION.

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM COMBUSTIBLE MATERIALS, STRONG ALKALIS AND OTHER INCOMPATIBLE MATERILAS.

Other Precautions:DO NOT BREATH MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

Exposure Controls

Respiratory Protection:IF ENGINEERING CONTRAOL FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:USE LOCAL EXHAUST OR FUME HOOD TO MAINTAIN EXPOSURE BELOW REGULATORY LIMITS.

Protective Gloves:NEOPRENE ELBOW LENGTH GLOVES

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NEOPRENE BOOTS, APRON, EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

Chemical Properties

HCC:D4
Boiling Pt:B.P. Text:252F,122C
Melt/Freeze Pt:M.P/F.P Text:-29F,-34C
Vapor Pres:62 MM HG
Vapor Density:2-3(AIR=1)
Spec Gravity:1.41 (WATER=1)
pH: Solubility in Water: APPRECIABLE
Appearance and Odor: COLORLESS TO YELLOW LIQUID; CHOKING ODOR

Stability

Stability Indicator/Materials to Avoid: YES
STRONG ALKALIS, METALLIC POWDERS, CARBIDES, HYDROGEN SULFIDE,
TURPENTINE, ORGANIC ACIDS, COMBUSTIBLE/OXIDIZABLE MATERIAL
Stability Condition to Avoid: CONTACT WITH WATER OR MOISTURE, CONTACT
WITH OTHER INCOMPATIBLES.
Hazardous Decomposition Products: NITROGEN OXIDES, HYDROGEN NITRATE.

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS. EPA WASTE NUMBER D002 MAY APPLY.

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