

NATIONAL DRAEGER,INC. -- 4594878 SULFURIC ACID -- 6810-00-227-1845

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

Product ID:4594878 SULFURIC ACID

MSDS Date:06/26/1986

FSC:6810

NIIN:00-227-1845

MSDS Number: BGWGN

=== Responsible Party ===

Company Name:NATIONAL DRAEGER,INC.

Address:101 TECHNOLOGY DR

Box:120

City:PITTSBURGH

State:PA

ZIP:15230

Country:US

Info Phone Num:412-787-8383

Emergency Phone Num:412-787-83

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CAGE:53833

=== Contractor Identification ===

Company Name:NATIONAL DRAEGER INC

Address:101 TECHNOLOGY DRIVE

Box:City:PITTSBURGH

State:PA

ZIP:15372

Country:US

Phone:412-787-8383 OR 412-787-8389

CAGE:53833

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

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 98%

Other REC Limits:NONE STATED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

C

AS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 2%

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

LD50 LC50 Mixture:LD50 ORAL RAT = 2140 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Effects of Overexposure:CONTACT MAY CAUSE PERMANENT DAMAGE TO EYES,
SEVERE BURNS AND ULCERATION OF SKIN. INHALATION CAUSES UPPER
RESPIRATORY IRRITATION AND POSSIBLE PULMONARY EDEMA. INGESTION
CAUSES SEVERE INJURIES

Medical Cond Aggravated by Exposure:RESPIRATORY CONDITIONS WILL BE
AGGRAVATED BY BREATHING ACID MISTS.

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

First Aid:EYES AND SKIN: FLUSH WITH PLENTY OF WATER. SEE DOCTOR
IMMEDIATELY. REMOVE CONTAMINATED CLOTHING AND SHOES. INHALATION:
REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR.
INGESTION: GIVE MILK OR WATER, FOLLOWED BY 2 OUNCES OF MILK OF
MAGNESIA (NO CARBONATES). SEE DOCTOR IMMEDIATELY.

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

Flash Point:NONE
Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE.
Fire Fighting Procedures:WEAR SCBA, FACE SHIELD, AND FULL PROTECTIVE
CLOTHING. COOL FIRE EXPOSED CONTAINERS WITH WATER. USE WATER SPRAY
TO ABSORB CORROSIVE VAPORS.
Unusual Fire/Explosion Hazard:ACID MAY EMIT TOXIC FUMES UNDER FIRE.
WATER WILL CAUSE HEAT GENERATION, BOIL OVER, AND SPLATTERING.

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

Spill Release Procedures:WEAR APPROPRIATE PROTECTIVE EQUIPMENT. DILUTE
CAUTIOUSLY WITH WATER. COVER WITH SODA ASH OR QUICKLIME. SCOOP UP
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.
Neutralizing Agent:SODA ASH (SODIUM CARBONATE) OR QUICKLIME (CALCIUM
OXIDE).

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

Handling and Storage Precautions:STORE AWAY FROM IGNITION SOURCES AND
COMBUSTIBLE MATERIALS. AVOID CONTACT WITH ORGANIC MATERIALS.
Other Precaut

ions:NEVER ADD WATER DIRECTLY TO CONCENTRATED SULFURIC
ACID, AS SPLATTERING MAY OCCUR.

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

Respiratory Protection:GAS MASK WITH ACID GAS CANISTER, SUPPLIED AIR
RESPIRATOR, OR SCBA AS APPROPRIATE FOR THE EXPOSURE OF CONCERN.

Ventilation:LOCAL EXHAUST.

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF GOGGLES.

Other Protective Equipment:RUBBER APRON AND BOOTS. EYES WASH STATION
AND SAFETY SHOWER.

Work Hygienic Practice

s:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:536F,280C

Melt/Freeze Pt:M.P/F.P Text:37F,3C

Vapor Pres:0.001

Vapor Density:3.4

Spec Gravity:1.8

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS TO DARK BROWN OILY LIQUID.

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

Stability Indicator/Materials to Avoid:YES

BASES, OXIDIZERS, REDUCING AGENTS, POWDER
RED METALS, ORGANIC MATERIAL.

Stability Condition to Avoid:HEAT, MOISTURE

Hazardous Decomposition Products:SULFUR DIOXIDE, SULFUR TRIOXIDE,
HYDROGEN SULFIDE, HYDROGEN GAS

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL
ENVIRONMENTAL REGULATIONS.

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