

E.I. DUPONT DE NEMOURS AND CO, INC -- SULFURIC ACID, 77 TO 100% -- 6810-00-236-0702

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

Product ID:SULFURIC ACID, 77 TO 100%

MSDS Date:10/01/1988

FSC:6810

NIIN:00-236-0702

MSDS Number: BDLRZ

=== Responsible Party ===

Company Name:E.I. DUPONT DE NEMOURS AND CO, INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-

441-9442

Emergency Phone Num:800-441-3637

Preparer's Name:J. C. WATTS

CAGE:19898

=== Contractor Identification ===

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

Company Name:E.I. DUPONT DE NEMOURS & CO., INC.

Box:1635

CAGE:19898

Company Name:INLAND PACKAGING INC

Address:209 PETERSON DR

Box:644

City:ELIZABETHTOWN

State:KY

ZIP:42701-9804

Country:US

Phone:502-737-6757

CAGE:66172

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Composition/Information on Ingredients
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Ingred Name:SULFURIC ACID (SARA III)
CAS:7664-93-9
RTECS #:WS5600000
Fraction by Wt: 29.5%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 70.5%

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Ca
rcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION OF VAPORS MAY CAUSE SEVERE IRRITATION OR BURNS OF THE RESPIRATORY SYSTEM, PULMONARY EDEMA, OR LUNG INFLAMMATION. MAY CAUSE SEVERE BURNS TO SKIN OR EYES. INGESTION MAY CAUSE SEVERE BU RNS TO MOUTH, THROAT, AND STOMACH. MAY AFFECT KIDNEY FUNCTION. CHRONIC: MAY DAMAGE LUNGS.
Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.
Effects of Overexpo
sure:SEVERE IRRITATION OR BURNS TO EYES, NOSE AND THROAT. PULMONARY EDEMA, BRONCHIAL EMPHYSEMA, CONJUNCTIVITIS, STOMATITIS, DENTAL EROSION, NAUSEA AND VOMITING.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

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First Aid Measures
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First Aid:INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. G

ET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:WILL NOT BURN

Extinguishing Media:USE MEDIA AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE.

Fire Fighting Procedures:EVACUATE PERSONNEL TO A SAFE AREA. KEEP PERSONNEL REMOVED AND UPWIND OF FIRE. WEAR FULL PROTECTIVE CLOTHING. RUNOFF FROM FIRE CONTROL MAY CAUSE POLLUTION.

Unusual Fire/Explosion Hazard:REACTS WITH MOST METALS, ESPECIALLY WHEN DILUTE, TO GIVE FLAMMABLE, POTENTIALLY EXPLOSIVE HYDROGEN GAS. DO NOT GET WATER INSIDE CONTAINERS.

===== Accidental Release Measures =====
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Spill Release Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DO NOT USE WATER. NEUTRALIZE SPILL AND/OR WASHINGS WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER.

Neutralizing Agent:LIME OR SODA ASH

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. KEEP CONTAINERS OUT OF SUN AND AWAY FROM HEAT. ISOLATE FROM INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. IN CASE OF SPILL NEUTRALIZE WITH SODA ASH OR LIME.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION

CONDITIONS EXIST. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

Ventilation:USE MECHANICAL (GENERAL) OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:C1

Boiling Pt:B.P. Text:380F,193C

Melt/Freeze Pt:M.P/F.P Text:-31F,-35C

Vapor Pres:< 0.3

Vapor Density:3.4

Spec Gravity:1.21

pH:< 1.0

Evaporation Rate & Reference:< 1 (BUTYL ACETATE = 1)

Solubility in Water:COMPLETE

Appearance and Odor:OILY, CLEAR TO TURBID, COLORLESS TO LIGHT GRAY LIQUID WITHNO ODOR.

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

Stability Indicator/Materials to Avoid:YES

WATER, ALKALINE SOLUTIONS, METALS, METAL POWDERS, CARBIDES, CHLORATES, FULMINATES, NITRATES, PICRATES, ORGANIC MATERIALS

Stability Condition to Avoid:HIGH HEAT, MOISTURE

Hazardous Decomposition Products:OXIDES OF SULFUR, HYDROGEN SULFIDE, HYDROGEN GAS

===== Disposal Con

siderations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM.

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