

E-BESAN -- V214,SULFURIC ACID-D2 -- 6810-00-551-5231

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

Product ID:V214,SULFURIC ACID-D2

MSDS Date:01/11/2000

FSC:6810

NIIN:00-551-5231

Status Code:A

MSDS Number: CJZYT

=== Responsible Party ===

Company Name:E-BESAN

Address:117 FOCIS, SUITE 214

Box:9237

City:METAIRIE

State:LA

ZIP:70055

Country:US

Info Phone Num:504-908-1222

Emergency Phone Num:504-908-1222

CAGE:1EAB

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=== Contractor Identification ===

Company Name:E-BESAN

Address:117 FOCIS, SUITE 214

Box:9237

City:METAIRIE

State:LA

ZIP:70055

Country:US

Phone:504-908-1222

Contract Num:SP0450-99-M-ND76

CAGE:1EAB6

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

Ingred Name:DEUTERATED SULFURIC ACID

CAS:13813-19-9

Minumum % Wt:90.

Maxumum % Wt:100.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

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

LD50 LC50 Mixture:ORAL LD50 (RAT): 2

140 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE: EYES/SKIN: LIQUID MAY CAUSE SEVERE BURNS TO EYES AND SKIN. INHALATION: VAPORS MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM. INGESTION: INGESTION IS HARMFUL AND MAY BE FATAL. MAY CAUSE SEVERE BURNS TO MOUTH, THROAT, AND STOMACH. MAY HAVE ADVERSE EFFECT ON KIDNEY FUNCTION AND MAY BE FATAL. CHRONIC: OVER EXPOSURE

MAY RESULT IN LUNG DAMAGE. TARGET ORGANS: RESPIRATORY SYSTEM, EYES, SKIN , TEETH.

Effects of Overexposure:INHALATION OF VAPORS MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM, LUNG DAMAGE. LIQUID MAY CAUSE SEVERE BURNS TO SKIN AND EYES. INGESTION IS HARMFUL AND MAY BE FATAL. INGESTION MAY CAUSE NAUSEA AND VOMITING. INGESTION MAY CAUSE SEVERE BURNS TO MOUTH, THROAT, AND STOMACH. MAY HAVE ADVERSE EFFECTS OF KIDNEY FUNCTION AND MAY BE FATAL.

Medical Condition Aggravated by Exposure:NONE IDENTIFIED.

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

First Aid:CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING; IF CONSCIOUS, GIVE WATER, MILK OR MILK OF MAGNESIA. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE.

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

Flash Point Method:CC

Extinguishing Media:USE DRY CHEMICAL OR CARBON DIOXIDE. DO NOT USE WATER.

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. DO NOT GET WATER INSIDE CONTAINERS.

Unusual Fire/Explosion Hazard:A VIOLENT EXOTHERMIC REACTION OCCURS WITH

WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS. TOXIC SULFUR DIOXIDE PRODUCED.

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

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 SPILLS AND/OR WASHINGS WITH SODA ASH OR LIME. WITH CLEAN SHO VEL, PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. MOVE CONTAINERS FROM SPILL AREA.

Neutralizing Agent:SODA ASH OR LIME.

===== 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.

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

Respiratory Protection:NONE REQUIRED WHERE APPROPRIATE VENTILATION CONDITIONS EXIST. IF TLV IS EXCEEDED, A SELF CONTAINED BREATHING APPARATUS IS ADVISED

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET REQUIREMENTS.

Protective Gloves:RUBBER GLOVES.

Eye Protection:SAFETY GOGGLES AND FACE SHIELD.

Other Protective Equipment:UNIFORM, PROTECTIVE SUIT RECOMMENDED.

Work Hygienic Practices:DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE CAUTIOUSLY. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

LABORATORY PROTECTI

VE EQUIPMENT: GOGGLES & SHIELDS; LAB COAT & APRON;

VENT HOOD; PROPER GLOVES. PRECAUTIONARY LABEL STATEMENTS: POISON DANGER. CAUSES SEVERE BURNS, MAY BE FATAL IF SWALLOWED. HARMFUL I F INHALED. REACTS VIOLENTLY WITH WATER.

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

HCC:C1

Vapor Pres:0

Spec Gravity:1.86

Solubility in Water:APPRECIABLE,100%.(WATER)

Appearance and Odor:CLEAR, COLORLESS TO LIGHT YELLOW, OILY ODORLESS LIQUID.

===== Stability an

d Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

WATER, MOST COMMON METALS, ORGANIC MATERIALS, STRONG REDUCING AGENTS, COMBUSTIBLE MATERIALS, STRONG BASES.

Stability Condition to Avoid: MOISTURE, HEAT.

Hazardous Decomposition Products: OXIDES OF SULFUR.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Toxicological Information: TOXICITY TEST RESULTS AND HEALTH EFFECTS ARE BASED ON THE NON-

DEUTERATED PRODUCT. THRESHOLD LIMIT VALUE

(TLV/TWA): 1 MG/M3. PERMISSIBLE EXPOSURE LIMIT (PEL): 1 MG/M3. LD50

(ORAL, RAT)= 2140 MG/KG. CARCINOGENICITY: NTP: NO, IARC: NO, Z

LIST: NO, OSHA REG: NO.

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

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS WASTE NUMBER: D002, D003 (CORROSIVE, REACTIVE WASTE).

===== MSDS

Transport Information =====

Transport Information: DOMESTIC (D.O.T.): PROPER SHIPPING NAME: SULFURIC

ACID. HAZARD CLASS: CORROSIVE MATERIAL (LIQUID). UN/NA: UN1830.

LABELS: CORROSIVE. INTERNATIONAL (I.M.O.): PROPER SHIPPING NAME:

SULPHURIC ACID. HAZARD CLASS: 8. UN/NA: UN1830. LABELS: CORROSIVE.

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

Federal Regulatory Information: EPA HAZARDOUS WASTE NUMBER: D002, D003 (CORROSIVE, REACTIVE WASTE)

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