

HACH CO -- NESSLER REAGENT -- 6810-01-011-7192

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

Product ID:NESSLER REAGENT

MSDS Date:12/31/1996

FSC:6810

NIIN:01-011-7192

MSDS Number: BMZGK

=== Responsible Party ===

Company Name:HACH CO

Address:100 DAYTON RD

Box:907

City:AMES

State:IA

ZIP:50010

Country:US

Info Phone Num:303-669-3050/800-227-4224

Emergency Phone Num:515-232-2533, CHEMTREC 800-424-9300

CAGE:4T252

=== Contractor Identification ===

Company Name:ADVANCED INDUSTRI  
ES INC

Address:415 NORTHCUTT STREET

Box:5666

City:LONGVIEW

State:TX

ZIP:75608

Country:US

Phone:214-236-4101

CAGE:0GA21

Company Name:HACH CO

Address:5600 LINDBERGH DR

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Phone:970-669-3050/ 303-623-5716

CAGE:91224

Company Name:HACH COMPANY

Address:100 DAYTON RD.

Box:907

City:AMES

State:IA

ZIP:50010

Country:US

Phone:800-227-4224

CAGE:4T252

Company Name:KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721

City:BRISTOL

State:PA

ZIP:19007-3517

Country:

US  
Phone:215-736-2000  
CAGE:7Z016

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

Ingred Name:MERCURIC IODIDE  
CAS:7774-29-0  
RTECS #:OW5250000  
Fraction by Wt: < 15%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1 MG/M3 (HG)  
ACGIH TLV:0.05 MG/M3 (HG)

Ingred Name:SODIUM HYDROXIDE (CERCLA)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by Wt: < 20%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM IODIDE  
CAS:7681-82-5  
RTECS #:WB6475000  
Fraction by Wt: < 10%  
Other REC Limits:NONE SPECIFIED

Ingred Name:IODINE  
CAS:7553-56-2  
RTECS #:NN1575000  
Fraction by Wt: < 1%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:C 0.1 PPM  
ACGIH TLV:C 0.1 PPM; 9596

Ingred Name:WATER, DEMINERALIZED  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: TO 100%  
Other REC Limits:NONE SPECIFIED

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

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

Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-MAY CAUSE BURNS TO SKIN AND EYES ON CONTACT. VERY TOXIC TO CENTRAL NERVOUS SYSTEM IF INGESTED OR ABSORBED THROUGH SKIN. CHRONIC- CUMULATIVE POISON. POSSIBLE KIDNEY OR CNS DAMAGE.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:INGESTION/ABSORBTION: EMOTIONAL INSTABILITY, INSOMNIA, TREMORS IN HANDS, DEPRESSION, AND IRRITABILITY.

SKIN/EYES: BURNS, BLISTERS, REDNESS, RASH, TEARING, PAIN.

Medical Cond Aggravated by Exposure:MAY AGGRAVATE ALLERGIES OR SENSITIVITY TO MERCURY; EYE OR SKIN CONDITIONS; DISORDERS OF THE CENTRAL NERVOUS SYSTEM OR KIDNEY.

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

First Aid:EYE AND SKIN CONTACT:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.REMOVE CONTAMINATED CLOTHING.CALL PHYSICIAN.

INHALATION:REMOVE TO FRESH AIR.CALL PHYSICIAN.INGESTED:DO NOT INDUCE VOMITING.IF CONSCIOUS , DRINK 1-2 GLASSES OF WATER.CALL A PHYSICIAN IMMEDIATELY.

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

Extinguishing Media:NOT APPLICABLE. DLA-HMIS:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:DLA-HMIS: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF TOXIC FUMES.

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

Spill Release Procedures:DO NOT ALLOW THE MERCURY TO CONTAMINATE AIR OR WATER. SOAK UP SOLUTION WITH INERT MATERIAL. DO NOT BREATHE FUMES. DECONTAMINATE AREA WITH MERCURY ABSORBING COMPOUNDS AVAILABLE COMMERCIALY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Pre

cautions:STORE IN TIGHTLY CLOSED CONTAINERS.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE FUMES OR VAPORS.

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

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

Ventilation:USE LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, FUME HOOD, LAB GRADE GOGGLES, DISPOSABLE GLOVES, LAB COAT.

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

Supplemental Safety and Health

FORMULATION CHANGED. FOR PREVIOUS FORMULATION, SEE P/N A, SAME NSN.

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

HCC:B1

Boiling Pt:B.P. Text:230F,110C

Spec Gravity:1.265

pH:12.1

Solubility in Water:APPRECIABLE

Appearance and Odor:CLEAR, LIGHT YELLOW LIQUID.

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

Stability Indicator/Materials to Avoid:YES

ACIDS, ORGANICS, AMMONIA, ALDEHYDES

Stability Condition to Avoid:EXTREME TEMPERATURES AND LIGHT

Hazardous Decomposition Products:TOXIC FUMES OF MERCURY, IODINE AND IODINE COMPOUNDS

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

Waste Disposal Methods:DISPOSE OF ALL MERCURY CONTAMINATED MATERIAL IN AN EPA APPROVED HAZARDOUS WASTE FACILITY. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. EPA/RCRA HAZWASTE NUMBER D009 (MERCURY)MAY APPLY.

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